

**BOBBY JINDAL**  
GOVERNOR



**HAROLD LEGGETT, Ph.D.**  
SECRETARY

**State of Louisiana**  
DEPARTMENT OF ENVIRONMENTAL QUALITY  
ENVIRONMENTAL SERVICES

Certified Mail No.

Activity No.: PER20070046  
Agency Interest No.: 2538

Mr. Willie A. Tempton, Jr.  
Refinery Manager, Lake Charles Refinery  
ConocoPhillips Company  
P. O. Box 37  
Westlake, LA 70669

RE: Operating permit modification, Lake Charles Refinery – Area A, ConocoPhillips Company,  
Westlake, Calcasieu Parish, Louisiana

Dear Mr. Tempton:

This is to inform you that the permit modification for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the 24th of August, 2010, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and agency interest number cited above should be referenced in future correspondence regarding this facility.

Done this \_\_\_\_\_ day of \_\_\_\_\_, 2008.

Permit No.: 2623-V5

Sincerely,

Cheryl Sonnier Nolan  
Assistant Secretary  
CSN:QMZ  
c: EPA Region VI

**AIR PERMIT BRIEFING SHEET  
AIR PERMITS DIVISION  
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**LAKE CHARLES REFINERY – AREA A  
AGENCY INTEREST NO. 2538  
CONOCOPHILLIPS COMPANY  
WESTLAKE, CALCASIEU PARISH, LOUISIANA**

**I. Background**

Lake Charles Refinery is a fully integrated petroleum refinery facility, which was first permitted in 1975. It is organized into five operating areas: Area A, Area B, Area C, Area D, and Excel Paralubes. ConocoPhillips Company presently operates the refinery under the following permits:

PSD-LA-390	granted 08/10/1981
PSD-LA-419	granted 10/08/1981
PSD-LA-533 (M-3)	granted 07/02/1993
PSD-LA-584 (M-4)	granted 05/19/2006
PSD-LA-699	granted 05/28/2004
2623-V4	granted 02/08/2008 (for Area A)
2624-V7	granted 12/21/2007 (for Area B)
2625-V4	granted 08/24/2005 (for Area C)
2626-V5	granted 07/17/2007 (for Area D)
2627-V4	granted 07/25/2008 (for Excel Paralubes)

**II. Origin**

A permit application dated December 20, 2007 was submitted requesting a Part 70 operating permit modification. Additional information, dated January 11, June 2 and 10, July 25, and August 12, 15, 25, & 28, 2008, was also received.

**III. Description**

Lake Charles Refinery (LCR) processes crude oils into chemical and petrochemical feedstocks, gasoline, heating oil, residual fuels, petroleum coke, lube oils, and other miscellaneous products. To refine the crude, it utilizes crude-topping units, crude vacuum units, a fluid catalytic cracking unit, an alkylation unit, a polymerization unit, catalytic reformers, desulfurization units, petroleum coking units, a calcining unit, sulfur recovery units, a hydrodewaxer unit, a hydrofinisher unit and associated infrastructure including plant utilities. Lake Charles Refinery is organized into Area A, Area B, Area C, Area D, and Excel Paralubes. This permit covers Area A, which consists of the following process units:

LSR/Naphtha Splitter

Light Straight Run (LSR)/Naphtha Splitter separates stabilized LSR from Nos. 2 and 3 Crude Units and naphtha from Saturate Gas Plant into LSR gasoline for blending into the gasoline pool and a naphtha feed for the Reformers. Process fugitives are the only emissions from this unit.

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LVT Unit

LVT Unit is used to produce a low viscosity, low toxicity, and high flash point solvent. The process consists of hydrogenating aromatics found in a kerosene boiling range feedstock over a hydrotreating catalyst at moderate temperatures and pressures. LVT product and light ends are separated in the fractionation section and sent to their respective storage facilities. The emission sources in this unit are a heater and process fugitives.

No. 2 Hydrodesulfurization (HDS) Unit

This unit is used to desulfurize naphtha streams by a high temperature, high pressure catalytic process. Desulfurization, reacting organic sulfur compounds with hydrogen to form H<sub>2</sub>S and other gases, prevents the reformer catalyst from being poisoned by the sulfur. In the presence of a catalyst at high temperature and pressure, sulfur compounds in the naphtha are converted to H<sub>2</sub>S in a hydrogen atmosphere while low sulfur petroleum products are produced for further processing, blending, or direct sale. The only emission source in this unit is a heater.

Primary Tower

Primary Tower is used to fractionate stream from Gas Recovery Plant (GRP) into Coker gasoline for blending and into heavy straight run (HSR) naphthas for reforming. Merox Unit is used to remove H<sub>2</sub>S and mercaptans from the Coker gasoline that is fractionated in Primary Tower. Feed to Primary Tower normally comes from GRP. Lower boiling Coker gasoline is taken off the top of the tower and the higher boiling naphthas are taken as a stream of bottoms. Coker gasoline overhead is cooled and fed to Merox Unit for treating. Primary tower bottoms (HSR naphtha) are pumped on level control through coolers to No. 4 HDS unit. Heat needed for tower fractionation is supplied by Heating Oil Belt to Primary Tower reboiler.

Merox Unit

Merox Unit removes H<sub>2</sub>S and mercaptans from the Coker gasoline utilizing a caustic wash (NaOH solution) and mixer-settlers. The remaining mercaptans in the Coker gasoline are oxidized to disulfides using a catalyst. Mercaptans contained in the rich caustic are also oxidized to disulfides followed by separation of caustic and disulfides. The regenerated fresh caustic is circulated back to the extraction section.

Heating Oil Belt

Heating Oil Belt is used to supply a utility hot oil heat source. Diesel is typically used as the hot oil medium. A gas-fired heater is used to heat the oil to the required temperature. From the heater, hot oil flows to any of several exchangers. All diesel exiting the

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exchangers is routed back to a surge drum, and the cycle is repeated. The emission sources in Primary Tower/Merox Unit/Heating Oil Belt include a heater and fugitives.

Bundle Cleaning Slab Unit

It is used to remove scale and other buildup on heat exchanger tubes. Fluids in the heat exchangers are drained and steamed to a flare prior to removing the tube bundles. The bundles are cleaned with a combination of high-pressure water jets, compressed air, steam, chemical, and mechanical means. There are no emissions of regulated pollutants associated with this unit.

FCC Feed Preparation Unit

This unit fractionates lighter distillate from heavy gas oil under vacuum. The distillate product is then sent to either heating oil storage or to further downstream processing. Vacuum tower bottoms (gas oil) are pumped to the Fluid Catalytic Cracking unit as feedstock or to FCC feed storage. Fugitives are the only emissions from this unit.

Gas Recovery Plant

Gas Recovery Plant (GRP) recovers gasoline, butanes/ butylenes, propane/propylene, other light ends, and refinery fuel gas from mixed liquid and gas feed streams. GRP compresses, absorbs, and separates the feed into various gas and liquid products for further processing, blending into finished products, or being used as refinery fuel gas. Fugitives are the only emissions from this plant.

Hydrogen Purification and Distribution

Hydrogen is gathered from LCR sources and neighboring industrial complexes and purified to meet the needs of downstream refinery hydrotreating and other processes. Low purity hydrogen (approximately 85%) is contaminated with light noncondensable hydrocarbons and is normally fed to Pressure Swing Adsorption (PSA) unit. PSA unit purifies the hydrogen stream with an adsorption bed system. PSA hydrogen stream has a minimum purity of 90% and is subsequently combined with a 99.9% pure hydrogen stream from offsite sources. Hydrocarbons adsorbed in the filtering process are purged to the low-pressure fuel gas drum. Fugitives are the only emissions from this unit.

No. 1 Premium Coker

No. 1 Premium Coker processes coker feedstocks into premium coke. Coke production is accomplished by heating (cracking) feedstocks in coke drums batchwise with the overhead gases going to the fractionation section. In the fractionation section, wet gas, light coker gas oil, heavy coker gas oil, and coker gasoline are separated and transferred to other units for further processing. Additional processing operations include timely

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drum switching, cooling, drum preparation, as well as the removal of all coke from the drum. Materials handling operations include preparation and movement of various grades of coke for further processing and/or transport to off-site storage. Emission sources in this unit include heaters, the premium coke crusher and transfer operations, fugitive particulate emissions associated with handling operations and wind erosion, and process fugitives.

No. 2 Calciner

No. 2 Calciner is used to process "green" coke. Green coke is fed into a rotary kiln where volatile and combustible gases are removed. No. 2 Calciner also produces high-pressure steam with a waste heat boiler by combusting gas and fine particulate matter that are removed from the processed coke in the rotary kiln. The kiln can be supplementally fired with refinery fuel gas. Coke heat removal, materials handling, and storage operations are also associated with No. 2 Calciner process unit. Emission sources include a waste heat boiler and fugitives.

No. 2 Coker

No. 2 Coker produces a full range of gas and liquid products. It also produces fuel grade coke from residual and slop oils using a variety of sour crude bottoms or purchased heavy oil feedstocks. Feedstock is pumped to two gas fired furnaces to increase its temperature prior to being fed to the coke drums. There are two sets of coke drums. One set is the live drums, while the other is emptied of coke and prepared for the next fill cycle. Thermal cracking takes place in the drums, producing a wide-boiling range product and filling the drums with petroleum coke. Coke drums are later drilled out with a high-pressure water jet. Facilities are also in place to store and transport coke product. Emission sources include heaters, a blowdown vent, and fugitives.

No. 6 Hydrodesulfurization (HDS)

No. 6 HDS is a high temperature and high-pressure catalytic process to desulfurize distillate feed streams. Typical feed for No. 6 HDS unit consists of a mixture of light gas oils from several units in the refinery and purchased feedstocks. In the presence of a catalyst at high temperature and high pressure, sulfur compounds in the feed are converted to  $H_2S$  in a hydrogen atmosphere.  $H_2S$  is routed to the sulfur recovery system. The low sulfur products are produced from this unit for further processing, blending, or direct sale. Emission sources include a heater and fugitives.

No. 7 Hydrodesulfurization (HDS)

No. 7 HDS is used to desulfurize heavy oil feed streams. Typical feed for No. 7 HDS unit consists of a mixture of heavy coker gas oil (HCGO) from SC/RC Division, gas oil streams, namely heavy vacuum gas oil (HVGO), light vacuum gas oil (LVGO), and

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sometimes atmospheric gas oil (AGO) from No. 3 Crude Topping Unit (CTU) Division, and purchased feedstocks. In the presence of a catalyst at high temperature and high pressure, sulfur compounds in the feed are converted to H<sub>2</sub>S in a hydrogen atmosphere. H<sub>2</sub>S is routed to the sulfur recovery system. Typically, No. 7 HDS product is routed to FCC unit as low sulfur feed. Emission sources include heaters and fugitives.

No. 8 Hydrodesulfurization (HDS)

No. 8 HDS is also used to desulfurize heavy oil feed streams. Typical feed for No. 8 HDS unit consists of a mixture of heavy gas oil from several units in the refinery and purchased feedstocks. In the presence of a catalyst at high temperature and high pressure, sulfur compounds in the feed are converted to H<sub>2</sub>S in a hydrogen atmosphere. H<sub>2</sub>S is routed to the sulfur recovery system. Low sulfur products are produced for further processing, blending, or direct sale. Emission sources include a heater and fugitives.

North Flare System

North Flare System is used to provide a means for safely controlling vapors and/or liquids released from processes. Vapors are routed to the flare tip for burning, while liquids are recovered in knockout drums and pumped to slop tanks for reuse in the refinery. The flare system is also used in startups, shutdowns, and malfunctions to control releases from depressuring and purging. The flare is the only emission source in this unit.

Reformate Splitter

This unit separates reformate into light and heavy reformate streams. In addition, a sidecut (containing over 10% benzene by weight) is removed from the splitter tower and sent off-site for aromatic extraction. After removal of aromatic offside, the remaining raffinate stream is returned to the refinery and used as a gasoline blending component. Fugitives are the only emissions from this unit.

Sour Crude/Resid Tank Farm

Sour Crude/Resid Tank Farm is used to receive and store feedstocks and charge them to refinery units in Area A and other areas as needed. One scrubber is used to control odors from the Hot Resid Tanks T-2001, T-2002. A second scrubber is planned to control odors from the Tanks T-2003, and T-2004. The tanks in this unit are all steam heated. Emission sources in this unit are tanks and scrubbers.

South Flare Gas Recovery Unit

South Flare Gas Recovery Unit (SFGR) is designed to reroute most of South Flare's waste gas stream to Gas Recovery Plant (GRP) for recovering refinery fuel gas and

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valuable light hydrocarbons. SFGR draws gas from Premium Coker Vent line leading to South Flare gas line. Filtered gas is compressed and sent to GRP for liquid recovery. Following sweetening, the fuel gas is routed to refinery fuel gas system. Fugitives are the only emissions from this unit.

Y-4 & Y-5 Cooling Towers

Y-4 & Y-5 cooling towers provide a recyclable cooling medium to support the process operations throughout the refinery. Heated water from the process units is fed through a grid system in the cooling tower cell interior. A fan induced air flow, crosscurrent to the falling water, extracts heat and carries it to the atmosphere. The cool water continues downward and is collected in the tower basin where it is chlorinated. The chlorinated water flows from the tower basin to a pump basin and is then pumped through the cooling water headers back to the process units. Fugitives are the only emissions from this unit.

With this modification, ConocoPhillips' Lake Charles Refinery is proposing a Ultra-Low Sulfur Diesel (ULSD) Project to make modifications to its operations so that it will achieve full compliance with EPA diesel regulations – 40 CFR 80 Subpart I. The project will reduce the sulfur content in diesel to no greater than 15 ppm.

The ULSD Project affects Area A, Area C, Area D, and Excel Paralubes of the Lake Charles Refinery and triggers PSD review for NO<sub>x</sub> and VOC emissions. The overall changes to the refinery associated with the ULSD Project and PSD review for the project are presented in the PSD Permit No. PSD-LA-735. Associated with the ULSD Project, the following are the proposed changes to Area A:

- Modifications to the No. 6 HDS Unit to produce 25,000 BPD of ultra low sulfur diesel in conjunction with other low sulfur products that are currently produced by this unit. The existing process heater, H-3101, will be replaced with a new furnace, H-74001, and will be designed to have a ULNB with air pre-heat.
- Installation of a new 21 MM scf/day Refinery Saturated Gas Plant (RSGP) to process off gas from the HDS units and to reduce the load on the existing Gas Recovery Plant. This unit will have a glycol regeneration vent that routinely vents to the North Flare, which is equipped with a flare gas recovery system to capture the vapors and send them to the refinery fuel gas system.
- Construction of a new 4,000 BPD Merox Unit (RSGP Merox) within the RSGP to remove mercaptan sulfur from the RSGP P-B stream. Excess air, used as an oxygen source in the oxidizer, will be vented from the disulfide separator, enriched with refinery fuel gas, and then combusted in the No. 2 Calciner.
- Construction of two new fixed roof sour water storage tanks, T-73001 and T-73002.

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- Changing the service for Tank T-2004 from Hot Resid storage to cracked diesel.
- Installing a new 24,000 gpm Cooling Water Tower, Y-8.

In addition some new fugitive components (valves and piping) will be added to the No. 7 HDS. An alternate suction header that provides feed to Pump P-3315 will be installed to replace the 4-in block valve. Estimated emissions from the Area A in tons per year are as follows:

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
PM <sub>10</sub>	162.15	165.92	+ 3.77
SO <sub>2</sub>	632.99	635.28	+ 2.29
NO <sub>x</sub>	596.63	593.64	- 2.99
CO	169.05	176.90	+ 7.85
VOC	219.25	256.54	+ 37.29

VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
1,2-Dichloroethane	0.02	0.02	-
1,3-Butadiene	0.06	0.07	+ 0.01
2,2,4-Trimethylpentane	0.76	0.92	+ 0.16
Aniline	0.06	0.08	+ 0.02
Benzene	0.99	1.23	+ 0.24
Biphenyl	0.26	0.30	+ 0.04
Carbon disulfide	0.04	0.06	+ 0.02
Cumene	0.11	0.13	+ 0.02
Diethanolamine	2.09	2.31	+ 0.22
Ethyl benzene	0.74	0.92	+ 0.18
Methanol	< 0.01	< 0.01	-
Methyl Tertiary Butyl Ether	< 0.01	< 0.01	-
n-Hexane	2.97	3.36	+ 0.39
Naphthalene (and Methyl naphthalenes)	1.10	1.35	+ 0.25
para-Phenylenediamine	0.06	0.08	+ 0.02
Phenol	0.07	0.09	+ 0.02
Polynuclear Aromatic Hydrocarbons	0.40	0.53	+ 0.13
Pyridine	0.06	0.08	+ 0.02

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VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):

Pollutant	Before	After	Change
Quinoline	0.06	0.08	+ 0.02
Styrene	< 0.01	< 0.01	-
Toluene	2.43	3.03	+ 0.60
Vinyl acetate	0.06	0.08	+ 0.02
Vinyl Chloride	0.05	0.05	-
Xylene (mixed isomers)	2.82	3.53	+ 0.71
<b>Total</b>	<b>15.21</b>	<b>18.30</b>	<b>+ 3.09</b>

Other VOC (TPY): 238.24

#### IV. Type of Review

This permit was reviewed for compliance with 40 CFR 70, the Louisiana Air Quality Regulations, Prevention of Significant Deterioration (PSD), New Source Performance Standards (NSPS), and National Emission Standards for Hazardous Air Pollutants (NESHAP).

This facility is part of a major source (the Lake Charles Refinery) of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51.

#### V. Credible Evidence

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

#### VI. Public Notice

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, on <date>, 2008; and in the <local paper>, <local town>, on <date>, 2008. A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List on <date>, 2008. The draft permit was also submitted to

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US EPA Region VI on <date>, 2008. All comments will be considered prior to the final permit decision.

**VII. Effects on Ambient Air**

Emissions associated with the proposed modification were reviewed by the Air Quality Assessment Division to ensure compliance with the NAAQS and AAS.

AERMOD modeling of NO<sub>x</sub> emissions from the proposed ULSD Project was performed and the modeling results indicate that the maximum air quality impact of NO<sub>x</sub> (0.770 µg/m<sup>3</sup>) will be below its PSD significance impact level (1 µg/m<sup>3</sup>) and preconstruction monitoring level (14 µg/m<sup>3</sup>). Therefore, pre-construction monitoring, refined NAAQS modeling, area of impact (AOI) determination, and increment consumption analyses were not required for the ULSD Project. An ozone impact analysis was also conducted and the results indicate that the ULSD Project complies with NAAQS for ozone.

**VIII. General Condition XVII Activities**

Work Activity	Schedule	Emission Rates (tons/year)
Pipelines and Associated Equipment Clearing	2,190 times/yr	VOC: 1.56
Control Device Inspections	1,460 times/yr	VOC: 1.04
Control Device Service	208 times/yr	VOC: 2.97
Equipment Cleaning	730 times/yr	VOC: 1.73
Valve Maintenance	2,190 times/yr	VOC: 1.56
Miscellaneous Equipment Preparation	1,460 times/yr	VOC: 4.17
Compressor Maintenance	48 times/yr	VOC: 0.34
Rupture Disc Inspections	7,300 times/yr	VOC: 4.91
Tank Vent Inspections	24 times/yr	VOC: 3.84
Vent Maintenance	48 times/yr	VOC: 0.05
Filter and Strainer Changeouts	2,190 times/yr	VOC: 1.56
Draining Compressor Bottles	8,760 bottles/yr	VOC: 2.08
Pump Maintenance	2,190 times/yr	VOC: 2.60
Instrument Maintenance	26,280 times/yr	VOC: 3.74
Recharging Catalyst	96 times/yr	PM <sub>10</sub> : 0.03; VOC: 1.73
Sampling	255,500 times/yr	VOC: 2.11
Tank Gauging	6,570 times/yr	VOC: 0.74
Vessel Preparation	2,190 times/yr	VOC: 3.11
Vacuum Truck Operations	2,190 times/yr	VOC: 3.83
Sludge Cleanout of Process Equipment	208 times/yr	VOC: 1.48

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Work Activity	Schedule	Emission Rates (tons/year)
Heater Exchanger Draining/Cleanout	312 times/yr	VOC: 1.71
Sludge Removal from Tank, Pond, and Basin	208 times/yr	VOC: 4.73
Carbon Bed Recharge and Replacement	4,380 times/yr	VOC: 0.58
Sump Solids Removal	520 times/yr	VOC: 2.22
Temporary Storage (60 Frac Tanks/Roll-Off Boxes)	12 turnovers/yr	VOC: 3.61
Floating Roof Landings	4 times/yr	VOC: 4.67
Propane Moisture Testing	1,825 times/yr	VOC: 4.74
Changeouts of Salt Dryers in Diesel Streams	1,095 times/yr	VOC: 3.13
Roll-off Boxes Sent Off Site	105 boxes/yr	VOC: 3.50
Miscellaneous Painting of Equipment	6,570 gal/yr	PM <sub>10</sub> : 3.78; VOC: 4.68
Decoking	3 times/yr	PM <sub>10</sub> : 0.04; SO <sub>2</sub> : 0.56; NO <sub>x</sub> : 0.04; CO: <0.01; VOC: <0.01; H <sub>2</sub> SO <sub>4</sub> : <0.01

Note: The General Condition XVII activities listed above are the refinery-wide activities.

**IX. Insignificant Activities**

ID No.	Description	Citation
	Lab. Equipment/process Vents for Routine Chemical or Physical Analysis	[LAC 33:III.501.B.5.A.6]
	Sulfuric Acid Storage Tanks with Negligible H <sub>2</sub> SO <sub>4</sub> Emissions	[LAC 33:III.501.B.5.D]
	Storage and Use of Water-Treating Chemicals	[LAC 33:III.501.B.5.B.8]
	Empty Drums and Equipment with Negligible Emissions	[LAC 33:III.501.B.5.D]
	Day Tanks/Chemical Injection Tanks	[LAC 33:III.501.B.5.A.3]
	Caustic Storage Tanks	[LAC 33:III.501.B.5.B.40]

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Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.	Description	LAC 33:III, Chapter																		
		5 <sup>A</sup>	9	11	13	15	2103	2109	2111	2113	2115	2141	2122	22	29*	51*	53*	56	59*	
UNF002	Lake Charles Refinery - Area A	1	1	1	1															
ARE016	REMEDI-A - Area A Site Remediation Activities								1											
EQT0529	H-18 - No. 1 Coker Heater (EP-13)			1	1	3														
EQT0530	EP-130 - Premium Coke Crusher and Transfer Operations				1															
EQT0531	EP-134 - Premium Coke Handling, Transfer and Loading Operations				1															
EQT0532	EP-135 - Fuel Coke Handling, Transfer and Loading Operations				1															
EQT0533	H-24 - No. 2 HDS Desulfurizer Heater (EP-17)			1	1	3														
EQT0534	H-26 - No. 1 Premium Coker Heater (EP-45)	1		1	1	3														
EQT0536	H-3201 - No. 7 HDS HVGO Heater (EP-55)	1		1	1	3														
EQT0537	H-3001 - No. 2 Coker Heater (EP-57)	1		1	1	3														
EQT0538	H-3002 - No. 2 Coker Heater (EP-58)	1		1	1	3														
EQT0539	EP-64 - North Flare	1		1	1	1														
EQT0540	T-2001 - Cone Roof Tank (EP-650)																			
EQT0541	T-2002 - Cone Roof Tank (EP-651)																			
EQT0542	T-2003 - Cone Roof Tank (EP-652)																			
EQT0543	T-2004 - Cone Roof Tank (EP-653)																			
EQT0544	T-2005 - Cone Roof Tank (EP-654)																			
EQT0545	H-3951 - No. 8 HDS Heater (EP-67)	1		1	1	3														
EQT0546	H-3232 - No. 7 HDS Heater (EP-73)	1		1	1	3														
EQT0547	H-9 - Heating Oil Belt Heater (EP-8)			1	1	3														
EQT0548	H-15 - LVT Heater (EP-85)			1	1	3														
EQT0549	H-27 - No. 1 Coker Heater (EP-86)	1		1	1	3														
EQT0550	T-3086 - Slurry Day Tank																			

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

LAKE CHARLES REFINERY – AREA A  
 AGENCY INTEREST NO. 2538  
 CONOCOPHILLIPS COMPANY  
 WESTLAKE, CALCASIEU PARISH, LOUISIANA

Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.	Description	L.A.C 33:III. Chapter																		
		5 <sup>A</sup>	9	11	13	15	2103	2109	2111	2113	2115	2141	2122	22	29*	51*	53*	56	59*	
EQT0565	H-74001 - No. 6 HDS Heater	1		1	1	3														
EQT0566	T-73001 - Internal Floating Roof Tank					3														1
EQT0567	T-73002 - Internal Floating Roof Tank					3														1
FUG0023	FUGWW-A - Area A Drain, Sumps, and Junction Box Fugitives (EP-148)																			1
FUG0024	Y-4 & 5 - Cooling Tower Fugitives (EP-153)																			1
FUG0025	FUGPROC-A - Area A Process Fugitives (EP-244)	1						1					1							1
FUG0029	Y-8 - Cooling Tower Fugitives	1																		1
RLP0077	EP-218 - Hot Resid Tank Vent Scrubber No. 1																			1
RLP0079	EP-65 - No. 2 Calciner Stack	1		1	1	1														

\* The regulations indicated above are State Only regulations.

▲ All L.A.C 33:III Chapter 5 citations are federally enforceable including L.A.C 33:III.501.C.6 citations, except when the requirement found in the "Specific Requirements" report specifically states that the regulation is State Only.

KEY TO MATRIX

- 1 - The regulations have applicable requirements that apply to this particular emission source.
- The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 - The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 -The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

LAKE CHARLES REFINERY - AREA A  
AGENCY INTEREST NO. 2538  
CONOCOPHILLIPS COMPANY  
WESTLAKE, CALCASIEU PARISH, LOUISIANA

Blank - The regulations clearly do not apply to this type of emission source.



LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

LAKE CHARLES REFINERY - AREA A  
 AGENCY INTEREST NO. 2538  
 CONOCOPHILLIPS COMPANY

WESTLAKE, CALCASIEU PARISH, LOUISIANA

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.	Description	40 CFR 60 NSPS						40 CFR 63 NESHAP				40 CFR										
		A	H	J/Ja	Ka	Kb	GGG	QQQ	QQQ	A	M	FF	A	F	CC	UUU	EEEE	GGGGG	64	68	82	
EQT0565	H-74001 - No. 6 HDS Heater			1																		
EQT0566	T-73001 - Internal Floating Roof Tank					3																
EQT0567	T-73002 - Internal Floating Roof Tank					3																
FUG0023	FUGWW-A - Area A Drain, Sumps, and Junction Box Fugitives (EP-148)						1								1							
FUG0024	Y-4 & 5 - Cooling Tower Fugitives (EP-153)																					
FUG0025	FUGPROC-A - Area A Process Fugitives (EP-244)									1												
FUG0029	Y-8 - Cooling Tower Fugitives																					
RLP0077	EP-218 - Hot Resid Tank Vent Scrubber No. 1																					
RLP0079	EP-65 - No. 2 Calciner Stack			1																		1

KEY TO MATRIX

- 1 -The regulations have applicable requirements that apply to this particular emission source.
- The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 -The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 -The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank - The regulations clearly do not apply to this type of emission source.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

LAKE CHARLES REFINERY - AREA A  
 AGENCY INTEREST NO. 2538  
 CONOCOPHILLIPS COMPANY  
 WESTLAKE, CALCASIEU PARISH, LOUISIANA

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No	Requirement	Notes
EQT0540, EQT0541, EQT0542, EQT0543, EQT0544	NSPS Subpart Ka - Storage Vessels for Petroleum Liquids [40 CFR 60.110a]	Exempted - Vapor pressure < 1.0 psia.
EQT0529, EQT0533, EQT0534, EQT0535, EQT0536, EQT0537, EQT0538, EQT0545, EQT0546, EQT0547, EQT0548, EQT0549, EQT0565	Storage of volatile Organic Compounds [LAC 33:III.2103] Emission Standards for Sulfur Dioxide [LAC 33:III.1502]	Does not apply - Vapor pressure < 1.5 psia. Does not apply - SO <sub>2</sub> emissions from each point source are less than 5 tons per year.
EQT0550	Storage of volatile Organic Compounds [LAC 33:III.2103]	Does not apply - Vapor pressure < 1.5 psia.
EQT0566, EQT0567	NSPS Subpart Kb - Standards of Performance for VOL Storage Vessels [40 CFR 60.110b] Storage of volatile Organic Compounds [LAC 33:III.2103]	Not in VOL service.

The above table provides explanation for both the exemption status and non-applicability of a source cited by 1, 2 or 3 in the matrix presented in Section X (Table 1) of this permit.

## 40 CFR PART 70 GENERAL CONDITIONS

- A. The term of this permit shall be five (5) years from date of issuance. An application for a renewal of this 40 CFR Part 70 permit shall be submitted to the administrative authority no later than six months prior to the permit expiration date. Should a complete permit application not be submitted six months prior to the permit expiration date, a facility's right to operate is terminated pursuant to 40 CFR Section 70.7(c)(ii). Operation may continue under the conditions of this permit during the period of the review of the application for renewal. [LAC 33:III.507.E.1, E.3, E.4, reference 40 CFR 70.6(a)(2)]
- B. The conditions of this permit are severable; and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. [Reference 40 CFR 70.6(a)(5)]
- C. Permittee shall comply with all conditions of the 40 CFR Part 70 permit. Any permit noncompliance constitutes a violation of the Clean Air Act and is grounds for enforcement action; for permit termination; revocation and reissuance, or modification; or for denial of a permit renewal application. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination; or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [LAC 33:III.507.B.2, reference 40 CFR 70.6(a)(6)(i) & (iii)]
- D. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [Reference 40 CFR 70.6(a)(6)(ii)]
- E. This permit does not convey any property rights of any sort, or an exclusive privilege. [Reference 40 CFR 70.6(a)(6)(iv)]
- F. The permittee shall furnish to the permitting authority, within a reasonable time, any information that the permitting authority may request in writing to determine whether cause exists for modifying, revoking, and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the permitting authority copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality. A claim of confidentiality does not relieve the permittee of the requirement to provide the information. [LAC 33:III.507.B.2, 517.F, reference 40 CFR 70.6(a)(6)(v)]
- G. Permittee shall pay fees in accordance with LAC 33:III.Chapter 2 and 40 CFR Section 70.6(a)(7). [LAC 33:III.501.C.2, reference 40 CFR 70.6(a)(7)]
- H. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the permitting authority or authorized representative to perform the following:
1. enter upon the permittee's premises where a 40 CFR Part 70 source is located or emission-related activity is conducted, or where records must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(i)];

## 40 CFR PART 70 GENERAL CONDITIONS

2. have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(ii)];
  3. inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iii)]; and
  4. as authorized by the Clean Air Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iv)]
- I. All required monitoring data and supporting information shall be kept available for inspection at the facility or alternate location approved by the agency for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Supporting information includes calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and all reports required by the permit.  
[Reference 40 CFR 70.6(a)(3)(ii)(B)]
- J. Records of required monitoring shall include the following:
1. the date, place as defined in the permit, and time of sampling or measurements;
  2. the date(s) analyses were performed;
  3. the company or entity that performed the analyses;
  4. the analytical techniques or methods used;
  5. the results of such analyses; and
  6. the operating conditions as existing at the time of sampling or measurement.
- [Reference 40 CFR 70.6(a)(3)(ii)(A)]
- K. Permittee shall submit at least semiannually, reports of any required monitoring, clearly identifying all instances of deviations from permitted monitoring requirements, certified by a responsible company official. For previously reported deviations, in lieu of attaching the individual deviation reports, the semiannual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The semiannual reports shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding period encompassing July through December and September 30 for the preceding period encompassing January through June. Any quarterly deviation report required to be submitted by March 31 or September 30 in accordance with Part 70 General Condition R may be consolidated with the semi-annual reports required by this general condition as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [LAC 33:III.507.H, reference 40 CFR 70.6(a)(3)(iii)(A)]
- L. The permittee shall submit at least semiannual reports on the status of compliance pursuant to 40 CFR Section 70.5 (c) (8) and a progress report on any applicable schedule of compliance pursuant to 40 CFR Section 70.6 (c) (4). [LAC 33:III.507.H.1, reference 40 CFR 70.6(c)(4)]

## 40 CFR PART 70 GENERAL CONDITIONS

- M. Compliance certifications per LAC 33:III.507.H.5 shall be submitted to the Administrator as well as the permitting authority. For previously reported compliance deviations, in lieu of attaching the individual deviation reports, the annual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The compliance certifications shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding calendar year. [LAC 33:III.507.H.5, reference 40 CFR 70.6(c)(5)(iv)]
- N. If the permittee seeks to reserve a claim of an affirmative defense as provided in LAC 33:III.507.J.2, the permittee shall, in addition to any emergency or upset provisions in any applicable regulation, notify the permitting authority within 2 working days of the time when emission limitations were exceeded due to the occurrence of an upset. In the event of an upset, as defined under LAC 33:III.507.J, which results in excess emissions, the permittee shall demonstrate through properly signed, contemporaneous operating logs, or other relevant evidence that: 1) an emergency occurred and the cause was identified; 2) the permitted facility was being operated properly at the time; and 3) during the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standard or requirement of the permit. [LAC 33:III.507.J.2, reference 40 CFR 70.6(g)(3)(iv) & (i-iii)]
- O. Permittee shall maintain emissions at a level less than or equal to that provided for under the allowances that the 40 CFR Part 70 source lawfully holds under Title IV of the Clean Air Act or the regulations promulgated thereunder. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that such increases do not require a permit revision under any other applicable requirement. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement. Any such allowance shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Clean Air Act. [Reference 40 CFR 70.6(a)(4)]
- P. Any permit issued pursuant to 40 CFR Part 70 may be subject to reopening prior to the expiration of the permit for any of the conditions specified in 40 CFR Section 70.7(f) or LAC 33:III.529. [LAC 33:III.529.A-B, reference 40 CFR 70.7(f)]
- Q. Permittee may request an administrative amendment to the permit to incorporate test results from compliance testing if the following criteria are met:
1. the changes are a result of tests performed upon start-up of newly constructed, installed, or modified equipment or operations;
  2. increases in permitted emissions will not exceed five tons per year for any regulated pollutant;
  3. increases in permitted emissions of Louisiana toxic air pollutants or of federal hazardous air pollutants would not constitute a modification under LAC 33:III. Chapter 51 or under Section 112 (g) of the Clean Air Act;

## 40 CFR PART 70 GENERAL CONDITIONS

4. changes in emissions would not require new source review for prevention of significant deterioration or nonattainment and would not trigger the applicability of any federally applicable requirement;
  5. changes in emissions would not qualify as a significant modification; and
  6. the request is submitted no later than 12 months after commencing operation. [LAC 33:III.523.A, reference 40 CFR 70.7(d)]
- R. Permittee shall submit prompt reports of all permit deviations as specified below to the Office of Environmental Compliance, Enforcement Division. All such reports shall be certified by a responsible official in accordance with 40 CFR 70.5(d).
1. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
  2. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
  3. A written report shall be submitted quarterly to address all permit deviations not included in paragraphs 1 or 2 above. Unless required by an applicable reporting requirement, a written report is not required during periods in which there is no deviation. The quarterly deviation reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by Part 70 General Condition K as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. For previously reported permit deviations, in lieu of attaching the individual deviation reports, the quarterly report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any permit deviations occurring during the corresponding specified calendar quarter:
    - a. Report by June 30 to cover January through March
    - b. Report by September 30 to cover April through June
    - c. Report by December 31 to cover July through September
    - d. Report by March 31 to cover October through December
  4. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided such reports are certified in accordance with 40 CFR 70.5(d) and contain all information relevant to the permit deviation. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107. [Reference 40 CFR 70.6(a)(3)(iii)(B)]

## 40 CFR PART 70 GENERAL CONDITIONS

- S. Permittee shall continue to comply with applicable requirements on a timely basis, and will meet on a timely basis applicable requirements that become effective during the permit term. [Reference 40 CFR 70.5(c)(8)(iii)]
- T. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
1. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156;
  2. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158;
  3. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161;
  4. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with recordkeeping requirements pursuant to 40 CFR 82.166. ("MVAC-like appliance" as defined at 40 CFR 82.152);
  5. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR 82.156; and
  6. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166. [Reference 40 CFR 82, Subpart F]
- U. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant. [Reference 40 CFR 82, Subpart B]
- V. Data availability for continuous monitoring or monitoring to collect data at specific intervals: Except for monitoring malfunctions, associated repairs, and required quality assurance or control activities (including calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the emissions unit is operating. For purposes of reporting monitoring deviations under Part 70 General Conditions K and R, and unless otherwise provided for in the Specific Requirements (or Table 3) of this permit, the minimum degree of data availability shall be at least 90% (based on a monthly average) of the operating time of the emissions unit or activity being monitored. This condition does not apply to Leak Detection

## LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS

- I. This permit is issued on the basis of the emissions reported in the application for approval of emissions and in no way guarantees that the design scheme presented will be capable of controlling the emissions to the type and quantities stated. Failure to install, properly operate and/or maintain all proposed control measures and/or equipment as specified in the application and supplemental information shall be considered a violation of the permit and LAC 33:III.501. If the emissions are determined to be greater than those allowed by the permit (e.g. during the shakedown period for new or modified equipment) or if proposed control measures and/or equipment are not installed or do not perform according to design efficiency, an application to modify the permit must be submitted. All terms and conditions of this permit shall remain in effect unless and until revised by the permitting authority.
- II. The permittee is subject to all applicable provisions of the Louisiana Air Quality Regulations. Violation of the terms and conditions of the permit constitutes a violation of these regulations.
- III. The Emission Rates for Criteria Pollutants, Emission Rates for TAP/HAP & Other Pollutants, and Specific Requirements sections or, where included, Emission Inventory Questionnaire sheets establish the emission limitations and are a part of the permit. Any operating limitations are noted in the Specific Requirements or, where included, Tables 2 and 3 of the permit. The synopsis is based on the application and Emission Inventory Questionnaire dated December 20, 2007, along with supplemental information dated January 11, June 2 and 10, July 25, and August 12, 15, 25, & 28, 2008.
- IV. This permit shall become invalid, for the sources not constructed, if:
- A. Construction is not commenced, or binding agreements or contractual obligations to undertake a program of construction of the project are not entered into, within two (2) years (18 months for PSD permits) after issuance of this permit, or;
  - B. If construction is discontinued for a period of two (2) years (18 months for PSD permits) or more.
- The administrative authority may extend this time period upon a satisfactory showing that an extension is justified.
- This provision does not apply to the time period between constructions of the approved phases of a phased construction project. However, each phase must commence construction within two (2) years (18 months for PSD permits) of its projected and approved commencement date.
- V. The permittee shall submit semiannual reports of progress outlining the status of construction, noting any design changes, modifications or alterations in the construction schedule which have or may have an effect on the emission rates or ambient air quality levels. These reports shall continue to be submitted until such time as construction is certified as being complete. Furthermore, for any significant change in the design, prior approval shall be obtained from the Office of Environmental Services, Air Permits Division.

## LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS

- VI. The permittee shall notify the Department of Environmental Quality, Office of Environmental Services, Air Permits Division within ten (10) calendar days from the date that construction is certified as complete and the estimated date of start-up of operation. The appropriate Regional Office shall also be so notified within the same time frame.
- VII. Any emissions testing performed for purposes of demonstrating compliance with the limitations set forth in paragraph III shall be conducted in accordance with the methods described in the Specific Conditions and, where included, Tables 1, 2, 3, 4, and 5 of this permit. Any deviation from or modification of the methods used for testing shall have prior approval from the Office of Environmental Assessment, Air Quality Assessment Division.
- VIII. The emission testing described in paragraph VII above, or established in the specific conditions of this permit, shall be conducted within sixty (60) days after achieving normal production rate or after the end of the shakedown period, but in no event later than 180 days after initial start-up (or restart-up after modification). The Office of Environmental Assessment, Air Quality Assessment Division shall be notified at least (30) days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. The test results shall be submitted to the Air Quality Assessment Division within sixty (60) days after the complete testing. As required by LAC 33:III.913, the permittee shall provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- IX. The permittee shall, within 180 days after start-up and shakedown of each project or unit, report to the Office of Environmental Compliance, Enforcement Division any significant difference in operating emission rates as compared to those limitations specified in paragraph III. This report shall also include, but not be limited to, malfunctions and upsets. A permit modification shall be submitted, if necessary, as required in Condition I.
- X. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of at least five (5) years.
- XI. If for any reason the permittee does not comply with, or will not be able to comply with, the emission limitations specified in this permit, the permittee shall provide the Office of Environmental Compliance, Enforcement Division with a written report as specified below.
- A. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
  - B. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.

**LOUISIANA AIR EMISSION PERMIT  
GENERAL CONDITIONS**

- C. A written report shall be submitted quarterly to address all emission limitation exceedances not included in paragraphs A or B above. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any emission limitation exceedances occurring during the corresponding specified calendar quarter:
1. Report by June 30 to cover January through March
  2. Report by September 30 to cover April through June
  3. Report by December 31 to cover July through September
  4. Report by March 31 to cover October through December
- D. Each report submitted in accordance with this condition shall contain the following information:
1. Description of noncomplying emission(s);
  2. Cause of noncompliance;
  3. Anticipated time the noncompliance is expected to continue, or if corrected, the duration of the period of noncompliance;
  4. Steps taken by the permittee to reduce and eliminate the noncomplying emissions; and
  5. Steps taken by the permittee to prevent recurrences of the noncomplying emissions.
- E. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided all information specified above is included. For Part 70 sources, reports submitted in accordance with Part 70 General Condition R shall serve to meet the requirements of this condition provided all specified information is included. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107.

- XII. Permittee shall allow the authorized officers and employees of the Department of Environmental Quality, at all reasonable times and upon presentation of identification, to:
- A. Enter upon the permittee's premises where regulated facilities are located, regulated activities are conducted or where records required under this permit are kept;
  - B. Have access to and copy any records that are required to be kept under the terms and conditions of this permit, the Louisiana Air Quality Regulations, or the Act;
  - C. Inspect any facilities, equipment (including monitoring methods and an operation and maintenance inspection), or operations regulated under this permit; and
  - D. Sample or monitor, for the purpose of assuring compliance with this permit or as otherwise authorized by the Act or regulations adopted thereunder, any substances or parameters at any location.

**LOUISIANA AIR EMISSION PERMIT  
GENERAL CONDITIONS**

- XIII. If samples are taken under Section XII.D. above, the officer or employee obtaining such samples shall give the owner, operator or agent in charge a receipt describing the sample obtained. If requested prior to leaving the premises, a portion of each sample equal in volume or weight to the portion retained shall be given to the owner, operator or agent in charge. If an analysis is made of such samples, a copy of the analysis shall be furnished promptly to the owner, operator or agency in charge.
- XIV. The permittee shall allow authorized officers and employees of the Department of Environmental Quality, upon presentation of identification, to enter upon the permittee's premises to investigate potential or alleged violations of the Act or the rules and regulations adopted thereunder. In such investigations, the permittee shall be notified at the time entrance is requested of the nature of the suspected violation. Inspections under this subsection shall be limited to the aspects of alleged violations. However, this shall not in any way preclude prosecution of all violations found.
- XV. The permittee shall comply with the reporting requirements specified under LAC 33:III.919 as well as notification requirements specified under LAC 33:III.927.
- XVI. In the event of any change in ownership of the source described in this permit, the permittee and the succeeding owner shall notify the Office of Environmental Services in accordance with LAC 33:I.Chapter 19.Facility Name and Ownership/Operator Changes Process.
- XVII. Very small emissions to the air resulting from routine operations, that are predictable, expected, periodic, and quantifiable and that are submitted by the permitted facility and approved by the Air Permits Division are considered authorized discharges. Approved activities are noted in the General Condition XVII Activities List of this permit. To be approved as an authorized discharge, these very small releases must:
1. Generally be less than 5 TPY
  2. Be less than the minimum emission rate (MER)
  3. Be scheduled daily, weekly, monthly, etc., or
  4. Be necessary prior to plant startup or after shutdown [line or compressor pressuring/depressuring for example]

These releases are not included in the permit totals because they are small and will have an insignificant impact on air quality. This general condition does not authorize the maintenance of a nuisance, or a danger to public health and safety. The permitted facility must comply with all applicable requirements, including release reporting under LAC 33:I.3901.

- XVIII. Provisions of the permit may be appealed to the secretary in writing pursuant to La. R.S. 30:2024(A) within 30 days from notice of the permit action. A request may be made to the secretary to suspend those provisions of the permit specifically appealed. The permit remains in effect to the extent that the secretary or assistant secretary does not elect to suspend the appealed provisions as requested or, at his discretion, other permit provisions as well. Construction cannot proceed, except as specifically approved by the secretary or

## LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS

assistant secretary, until a final decision has been rendered on the appeal. A request for hearing must be sent to the Office of the Secretary. A request for hearing must be sent to the following:

Attention: Office of the Secretary, Legal Services Division  
La. Dept. of Environmental Quality  
Post Office Box 4302  
Baton Rouge, Louisiana 70821-4302

XIX. For Part 70 sources, certain Part 70 general conditions may duplicate or conflict with state general conditions. To the extent that any Part 70 conditions conflict with state general conditions, then the Part 70 general conditions control. To the extent that any Part 70 general conditions duplicate any state general conditions, then such state and Part 70 provisions will be enforced as if there is only one condition rather than two conditions.

**INVENTORIES**

**AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery**  
**Activity Number: PER20070046**  
**Permit Number: 2623-V5**  
**Air - Title V Regular Permit Major Mod**

**Subject Item Inventory:**

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
<b>Lake Charles Refinery - Area A</b>						
ARE0016	REMEDI-A - Area A Site Remediation Activities					8760 hr/yr (All Year)
EOT0529	H-18 - No. 1 Coker Heater (EP-13)		122 MM BTU/hr	95 MM BTU/hr		8760 hr/yr (All Year)
EOT0530	EP-130 - Premium Coke Crusher & Transfer Operations		600 tons/hr	365000 tons/yr		8760 hr/yr (All Year)
EOT0531	EP-134 - Premium Coke Handling, Transfer and Loading Operations		600 tons/hr	365000 tons/yr		8760 hr/yr (All Year)
EOT0532	EP-135 - Fuel Coke Handling, Transfer and Loading Operations		900 tons/hr	1.8 MM tons/yr		8760 hr/yr (All Year)
EOT0533	H-24 - No. 2 HDS Desulfurizer Heater (EP-17)		45.6 MM BTU/hr	38 MM BTU/hr		8760 hr/yr (All Year)
EOT0534	H-26 - No. 1 Premium Coker Heater (EP-45)		76 MM BTU/hr	50 MM BTU/hr		8760 hr/yr (All Year)
EOT0536	H-3201 - No. 7 HDS HVGO Heater (EP-55)		27.6 MM BTU/hr	23 MM BTU/hr		8760 hr/yr (All Year)
EOT0537	H-3001 - No. 2 Coker Heater (EP-57)		162 MM BTU/hr	135 MM BTU/hr		8760 hr/yr (All Year)
EOT0538	H-3002 - No. 2 Coker Heater (EP-58)		162 MM BTU/hr	135 MM BTU/hr		8760 hr/yr (All Year)
EOT0539	EP-64 - North Flare		24.7 MM BTU/hr	12.35 MM BTU/hr		8760 hr/yr (All Year)
EOT0540	T-2001 - Cone Roof Tank (EP-650)	200000 bbl		4.3 MM bbl/yr		8760 hr/yr (All Year)
EOT0541	T-2002 - Cone Roof Tank (EP-651)	200000 bbl		4.3 MM bbl/yr		8760 hr/yr (All Year)
EOT0542	T-2003 - Cone Roof Tank (EP-652)	200000 bbl		4.3 MM bbl/yr		8760 hr/yr (All Year)
EOT0543	T-2004 - Cone Roof Tank (EP-653)	200000 bbl		4.3 MM bbl/yr		8760 hr/yr (All Year)
EOT0544	T-2005 - Cone Roof Tank (EP-654)	200000 bbl		4.3 MM bbl/yr		8760 hr/yr (All Year)
EOT0545	H-3951 - No. 8 HDS Heater (EP-67)		14.4 MM BTU/hr	12 MM BTU/hr		8760 hr/yr (All Year)
EOT0546	H-3232 - No. 7 HDS Heater (EP-73)		27.6 MM BTU/hr	23 MM BTU/hr		8760 hr/yr (All Year)
EOT0547	H-9 - Heating Oil Belt Heater (EP-8)		70.7 MM BTU/hr	58.9 MM BTU/hr		8760 hr/yr (All Year)
EOT0548	H-15 - LVT Heater (EP-85)		16.2 MM BTU/hr	13.5 MM BTU/hr		8760 hr/yr (All Year)
EOT0549	H-27 - No. 1 Coker Heater (EP-86)		51 MM BTU/hr	29.5 MM BTU/hr		8760 hr/yr (All Year)
EOT0550	T-3086 - Slurry Day Tank	500 bbl		4600 bbl/yr		8760 hr/yr (All Year)
EOT0565	H-74001 - No. 6 HDS Heater		66 MM BTU/hr	54.8 MM BTU/hr		8760 hr/yr (All Year)
EOT0566	T-73001 - Internal Floating Roof Tank	32900 bbl				8760 hr/yr (All Year)
EOT0567	T-73002 - Internal Floating Roof Tank	32900 bbl				8760 hr/yr (All Year)
FUG0023	FUGWW-A - Area A Drain, Sumps, and Junction Box Fugitives (EP-148)					8760 hr/yr (All Year)
FUG0024	Y-4 & 5 - Cooling Tower Fugitives (EP-153)		50800 gallons/mth	50800 gallons/min		8760 hr/yr (All Year)
FUG0025	FUGPROC-A - Area A Process Fugitives (EP-244)					8760 hr/yr (All Year)
FUG0029	Y-6 - Cooling Tower Fugitives		24000 gallons/min	24000 gallons/min		8760 hr/yr (All Year)
RLP0077	EP-218 - Hot Resid Tank Vent Scrubber No. 1					8760 hr/yr (All Year)
RLP0079	EP-65 - No. 2 Calciner Stack		950 tons/day	302800 tons/yr		8760 hr/yr (All Year)
RLP0080	C-1430 - Flare Gas Recovery Vent (routed to South Flare in Area B)					8760 hr/yr (All Year)
RLP0081	C-1431 - Flare Gas Recovery Vent (routed to South Flare in Area B)					8760 hr/yr (All Year)
RLP0082	C-3701 - Hydrogen Compressor Vent (routed to South Flare in Area B)					8760 hr/yr (All Year)
RLP0083	C-3702 - Hydrogen Compressor Vent (routed to South Flare in Area B)					8760 hr/yr (All Year)

**INVENTORIES**

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery  
 Activity Number: PER20070046  
 Permit Number: 2623-V5  
 Air - Title V Regular Permit Major Mod

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
<b>Lake Charles Refinery - Area A</b>						
RLP0084	C-67 - Wet Gas Compressor Vent (routed to South Flare in Area B)					8760 hr/yr (All Year)
RLP0085	C-3301 - Wet Gas Compressor Vent (routed to South Flare in Area B)					8760 hr/yr (All Year)
RLP0086	C-88001 - PSA Trailings Transfer Vent (routed to South Flare in Area B)					8760 hr/yr (All Year)
RLP0087	P-3312 - Tandem Seal Pump Vent (routed to South Flare in Area B)					8760 hr/yr (All Year)
RLP0088	P-3314 - Tandem Seal Pump Vent (routed to South Flare in Area B)					8760 hr/yr (All Year)
RLP0089	P-3315 - Tandem Seal Pump Vent (routed to South Flare in Area B)					8760 hr/yr (All Year)
RLP0090	P-3318 - Tandem Seal Pump Vent (routed to South Flare in Area B)					8760 hr/yr (All Year)
RLP0091	P-3319 - Tandem Seal Pump Vent (routed to South Flare in Area B)					8760 hr/yr (All Year)
RLP0092	D-3006 - No. 1 Coker Settling Drum (routed to South Flare in Area B)					8760 hr/yr (All Year)
RLP0093	W-3003 - No. 2 Coke Blowdown Quench Tower (routed to South Flare in Area B)					8760 hr/yr (All Year)
RLP0094	D-1505 - Drain and Level Bridle					8760 hr/yr (All Year)
RLP0095	D-88007 - Drain and Level Bridle					8760 hr/yr (All Year)
RLP0096	D-88111 - Drain and Level Bridle					8760 hr/yr (All Year)
RLP0097	D-3001 - Coke Wet Gas Sample Connection					8760 hr/yr (All Year)
RLP0098	D-3207 - Drain					8760 hr/yr (All Year)
RLP0099	D-3305 - Level Bridle					8760 hr/yr (All Year)
RLP0100	D-3308 - Level Bridle					8760 hr/yr (All Year)
RLP0101	D-3702 - Drain					8760 hr/yr (All Year)
RLP0102	D-3704 - Drain					8760 hr/yr (All Year)
RLP0103	D-3705 - Drain					8760 hr/yr (All Year)
RLP0104	D-3708 - Drain					8760 hr/yr (All Year)
RLP0105	D-3733 - Drain					8760 hr/yr (All Year)
RLP0106	D-3734 - Drain					8760 hr/yr (All Year)
RLP0107	D-3760 - Drain					8760 hr/yr (All Year)
RLP0108	LCV-37010 - Drain					8760 hr/yr (All Year)
RLP0109	LCV-37014 - Drain					8760 hr/yr (All Year)
RLP0110	FS-3701 - Drain					8760 hr/yr (All Year)
RLP0111	D-3710 - Snubber Drain					8760 hr/yr (All Year)
RLP0112	D-3711 - Snubber Drain					8760 hr/yr (All Year)
RLP0113	D-3712 - Snubber Drain					8760 hr/yr (All Year)
RLP0114	D-3714 - Snubber Drain					8760 hr/yr (All Year)
RLP0115	D-3715 - Snubber Drain					8760 hr/yr (All Year)
RLP0116	D-3716 - Snubber Drain					8760 hr/yr (All Year)

**INVENTORIES**

**AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery**  
**Activity Number: PER20070046**  
**Permit Number: 2623-V5**  
**Air - Title V Regular Permit Major Mod**

**Subject Item Inventory:**

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
<b>Lake Charles Refinery - Area A</b>						
RLP0117	D-3717 - Snubber Drain					8760 hr/yr (All Year)
RLP0118	D-3719 - Snubber Drain					8760 hr/yr (All Year)
RLP0119	D-3719A - Snubber Drain					8760 hr/yr (All Year)
RLP0120	D-3722 - Snubber Drain					8760 hr/yr (All Year)
RLP0121	D-3713 - Snubber Drain					8760 hr/yr (All Year)
RLP0122	D-3720 - Snubber Drain					8760 hr/yr (All Year)
RLP0123	D-3721 - Snubber Drain					8760 hr/yr (All Year)
RLP0124	D-3723 - Snubber Drain					8760 hr/yr (All Year)
RLP0125	D-3724 - Snubber Drain					8760 hr/yr (All Year)
RLP0126	D-3725 - Snubber Drain					8760 hr/yr (All Year)
RLP0127	D-3726 - Snubber Drain					8760 hr/yr (All Year)
RLP0128	D-3727 - Snubber Drain					8760 hr/yr (All Year)
RLP0129	D-3729 - Snubber Drain					8760 hr/yr (All Year)
RLP0130	D-3729A - Snubber Drain					8760 hr/yr (All Year)
RLP0131	D-4315 - Nitrogen Purge Line					8760 hr/yr (All Year)
RLP0132	D-4318 - Nitrogen Purge Line					8760 hr/yr (All Year)
RLP0133	D-76014 - Sample Connection and Level Bridle					8760 hr/yr (All Year)
RLP0134	W-3702 - Sample Connection and Level Bridle					8760 hr/yr (All Year)
RLP0135	FCV-3312 - Control Valve Bleed Line					8760 hr/yr (All Year)
RLP0136	FD-3701 - PSA Filter Purge Vent and Drain					8760 hr/yr (All Year)
RLP0137	P-3308/3309 - Discharge Drain					8760 hr/yr (All Year)
RLP0496	D-SWSFD - Sour Water Stripper Flash Drum Vent					8760 hr/yr (All Year)

**Stack Information:**

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
<b>Lake Charles Refinery - Area A</b>							
EOT0529	H-18 - No. 1 Coker Heater (EP-13)	16	41900	7.42	105	105	650
EOT0533	H-24 - No. 2 HDS Desulfurizer Heater (EP-17)	18	20300	4.95	55	55	900
EOT0534	H-26 - No. 1 Premium Coker Heater (EP-45)	18	21500	5	120	120	375
EOT0536	H-3201 - No. 7 HDS HVGO Heater (EP-55)	36.2	15333	3	100	100	925
EOT0537	H-3001 - No. 2 Coker Heater (EP-57)	13.8	41545	8	165	165	375
EOT0538	H-3002 - No. 2 Coker Heater (EP-58)	13.8	41545	8	165	165	375
EOT0539	EP-64 - North Flare	327	188783	3.5	250	250	1340
EOT0545	H-3951 - No. 8 HDS Heater (EP-67)	17.5	7400	3	100	100	925
EOT0546	H-3232 - No. 7 HDS Heater (EP-73)	26.9	11400	3	100	100	800
EOT0547	H-9 - Heating Oil Belt Heater (EP-8)	15	31591	6.67	126	126	900
EOT0548	H-15 - LVT Heater (EP-85)	12.32	5823	3.17	94.84	94.84	577

**INVENTORIES**  
**AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery**  
**Activity Number: PER20070046**  
**Permit Number: 2623-V5**  
**Air - Title V Regular Permit Major Mod**

**Stack Information:**

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
<b>Lake Charles Refinery - Area A</b>							
EQT0549	H-27 - No. 1 Coker Heater (EP-86)	34.8	26260	4		180	600
EQT0565	H-74001 - No. 6 HDS Heater	25	22217	4.25	14.81	150	698.1
FUG0024	Y-4 & 5 - Cooling Tower Fugitives (EP-153)						
FUG0029	Y-8 - Cooling Tower Fugitives						
RLP0077	EP-218 - Hot Resid Tank Vent Scrubber No. 1	11.9	250	.67	.35	12	170
RLP0079	EP-65 - No. 2 Calciner Stack	44	207500	10		213	380

**Relationships:**

ID	Description	Relationship	ID	Description
EQT0539	EP-64 - North Flare	Controls emissions from	RLP0094	D-1505 - Drain and Level Bridle
EQT0539	EP-64 - North Flare	Controls emissions from	RLP0095	D-88007 - Drain and Level Bridle
EQT0539	EP-64 - North Flare	Controls emissions from	RLP0096	D-88111 - Drain and Level Bridle
EQT0539	EP-64 - North Flare	Controls emissions from	RLP0097	D-3001 - Coke Wet Gas Sample Connection
EQT0539	EP-64 - North Flare	Controls emissions from	RLP0098	D-3207 - Drain
EQT0539	EP-64 - North Flare	Controls emissions from	RLP0099	D-3305 - Level Bridle
EQT0539	EP-64 - North Flare	Controls emissions from	RLP0100	D-3308 - Level Bridle
EQT0539	EP-64 - North Flare	Controls emissions from	RLP0101	D-3702 - Drain
EQT0539	EP-64 - North Flare	Controls emissions from	RLP0102	D-3704 - Drain
EQT0539	EP-64 - North Flare	Controls emissions from	RLP0103	D-3705 - Drain
EQT0539	EP-64 - North Flare	Controls emissions from	RLP0104	D-3708 - Drain
EQT0539	EP-64 - North Flare	Controls emissions from	RLP0105	D-3733 - Drain
EQT0539	EP-64 - North Flare	Controls emissions from	RLP0106	D-3734 - Drain
EQT0539	EP-64 - North Flare	Controls emissions from	RLP0107	D-3760 - Drain
EQT0539	EP-64 - North Flare	Controls emissions from	RLP0108	LCV-37010 - Drain
EQT0539	EP-64 - North Flare	Controls emissions from	RLP0109	LCV-37014 - Drain
EQT0539	EP-64 - North Flare	Controls emissions from	RLP0110	FS-3701 - Drain
EQT0539	EP-64 - North Flare	Controls emissions from	RLP0111	D-3710 - Snubber Drain
EQT0539	EP-64 - North Flare	Controls emissions from	RLP0112	D-3711 - Snubber Drain
EQT0539	EP-64 - North Flare	Controls emissions from	RLP0113	D-3712 - Snubber Drain
EQT0539	EP-64 - North Flare	Controls emissions from	RLP0114	D-3714 - Snubber Drain
EQT0539	EP-64 - North Flare	Controls emissions from	RLP0115	D-3715 - Snubber Drain
EQT0539	EP-64 - North Flare	Controls emissions from	RLP0116	D-3716 - Snubber Drain
EQT0539	EP-64 - North Flare	Controls emissions from	RLP0117	D-3717 - Snubber Drain
EQT0539	EP-64 - North Flare	Controls emissions from	RLP0118	D-3719 - Snubber Drain
EQT0539	EP-64 - North Flare	Controls emissions from	RLP0119	D-3719A - Snubber Drain
EQT0539	EP-64 - North Flare	Controls emissions from	RLP0120	D-3722 - Snubber Drain

**INVENTORIES**

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery  
 Activity Number: PER20070046  
 Permit Number: 2623-V5  
 Air - Title V Regular Permit Major Mod

**Relationships:**

ID	Description	Relationship	ID	Description
EQT0539	EP-64 - North Flare	Controls emissions from	RLP0121	D-3713 - Snubber Drain
EQT0539	EP-64 - North Flare	Controls emissions from	RLP0122	D-3720 - Snubber Drain
EQT0539	EP-64 - North Flare	Controls emissions from	RLP0123	D-3721 - Snubber Drain
EQT0539	EP-64 - North Flare	Controls emissions from	RLP0124	D-3723 - Snubber Drain
EQT0539	EP-64 - North Flare	Controls emissions from	RLP0125	D-3724 - Snubber Drain
EQT0539	EP-64 - North Flare	Controls emissions from	RLP0126	D-3725 - Snubber Drain
EQT0539	EP-64 - North Flare	Controls emissions from	RLP0127	D-3726 - Snubber Drain
EQT0539	EP-64 - North Flare	Controls emissions from	RLP0128	D-3727 - Snubber Drain
EQT0539	EP-64 - North Flare	Controls emissions from	RLP0129	D-3729 - Snubber Drain
EQT0539	EP-64 - North Flare	Controls emissions from	RLP0130	D-3729A - Snubber Drain
EQT0539	EP-64 - North Flare	Controls emissions from	RLP0131	D-4315 - Nitrogen Purge Line
EQT0539	EP-64 - North Flare	Controls emissions from	RLP0132	D-4318 - Nitrogen Purge Line
EQT0539	EP-64 - North Flare	Controls emissions from	RLP0133	D-76014 - Sample Connection and Level Bridle
EQT0539	EP-64 - North Flare	Controls emissions from	RLP0134	W-3702 - Sample Connection and Level Bridle
EQT0539	EP-64 - North Flare	Controls emissions from	RLP0135	FCV-3312 - Control Valve Bleed Line
EQT0539	EP-64 - North Flare	Controls emissions from	RLP0136	FD-3701 - PSA Filter Purge Vent and Drain
EQT0539	EP-64 - North Flare	Controls emissions from	RLP0137	P-3308/3309 - Discharge Drain

**Subject Item Groups:**

ID	Group Type	Group Description
CRG0005	Common Requirements Group	
CRG0007	Common Requirements Group	
GRP0038	Equipment Group	EP-136 - Hot Resid Tank Cap
UNF0002	Unit or Facility Wide	

**Group Memberships:**

ID	Description	Member of Groups
EQT0529	H-18 - No. 1 Coker Heater (EP-13)	CRG0000000005
EQT0533	H-24 - No. 2 HDS Desulfurizer Heater (EP-17)	CRG0000000005
EQT0540	T-2001 - Cone Roof Tank (EP-650)	CRG0000000007, GRP00000000038
EQT0541	T-2002 - Cone Roof Tank (EP-651)	CRG0000000007, GRP00000000038
EQT0542	T-2003 - Cone Roof Tank (EP-652)	CRG0000000007, GRP00000000038
EQT0543	T-2004 - Cone Roof Tank (EP-653)	CRG0000000007
EQT0544	T-2005 - Cone Roof Tank (EP-654)	CRG0000000007, GRP00000000038
EQT0547	H-9 - Heating Oil Bell Heater (EP-8)	CRG0000000005
EQT0548	H-15 - LVT Heater (EP-85)	CRG0000000005
RLP0077	EP-218 - Hot Resid Tank Vent Scrubber No. 1	GRP00000000038

NOTE: The UNF group relationship is not printed in this table. Every subject item is a member of the UNF group

**INVENTORIES**

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery  
Activity Number: PER20070046  
Permit Number: 2623-V5  
Air - Title V Regular Permit Major Mod

**Annual Maintenance Fee:**

Fee Number	Air Contaminant Source	Multiplier	Units Of Measure
0720	Petroleum Refining (Rated Capacity)	1	1,000 BBL/Day

**SIC Codes:**

2911	Petroleum refining	A12538
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**EMISSION RATES FOR CRITERIA POLLUTANTS**

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery  
 Activity Number: PER20070046  
 Permit Number: 2623-V5  
 Air - Title V Regular Permit Major Mod

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year												
Lake Charles Refinery - Area A															
ARE 0016 REMED-A															
EQT 0529 H-18	1.90	2.44	8.32	9.31	11.96	40.78	0.71	0.91	3.10	0.63	3.29	2.77	0.17	0.22	0.75
EQT 0530 EP-100							0.08	1.16	0.35						
EQT 0531 EP-114							1.28	21.71	5.61						
EQT 0532 EP-135							1.49	6.95	6.52						
EQT 0533 H-24	0.76	0.91	3.33	6.46	7.75	28.29	0.28	0.34	1.24	0.25	1.23	1.11	0.068	0.082	0.30
EQT 0534 H-28	2.00	4.56	8.76	1.50	2.28	6.57	0.37	0.57	1.63	0.33	2.05	1.46	0.09	0.14	0.39
EQT 0536 H-3201	0.46	0.55	2.01	1.38	1.66	6.04	1.09	1.3	4.75	0.15	0.74	0.67	0.04	0.05	0.18
EQT 0537 H-3001	2.70	3.24	11.83	18.90	22.68	82.78	1.01	1.21	4.41	1.07	5.20	4.69	0.24	0.29	1.06
EQT 0538 H-3002	2.70	3.24	11.83	18.90	22.68	82.78	1.01	1.21	4.41	1.07	5.20	4.69	0.24	0.29	1.06
EQT 0539 EP-64	8.56	13.13	37.48	1.57	2.41	6.89	<0.001	<0.001	<0.01	15.99	500	70.04	3.24	4.97	14.19
EQT 0542 T-2003														0.76	
EQT 0543 T-2004													0.88	1.31	3.83
EQT 0544 T-2005														0.76	
EQT 0545 H-3951	0.24	0.29	1.05	1.18	1.41	5.15	0.09	0.11	0.39	0.08	0.39	0.35	0.02	0.03	0.09
EQT 0546 H-3232	0.46	0.55	2.01	1.38	1.66	6.04	0.17	0.21	0.75	0.15	0.74	0.67	0.04	0.05	0.18
EQT 0547 H-9	1.18	1.41	5.16	10.6	12.73	46.44	0.44	0.53	1.92	0.39	1.9	1.72	0.11	0.13	0.46
EQT 0548 H-15	0.27	0.32	1.18	1.62	1.94	7.10	0.10	0.12	0.44	0.09	0.44	0.39	0.02	0.03	0.11
EQT 0549 H-27	0.59	1.22	2.58	3.54	7.32	15.51	0.22	0.45	0.96	0.20	1.64	0.86	0.053	0.11	0.23
EQT 0550 T-3006													0.001	0.001	<0.01
EQT 0565 H-74001	2.19	3.96	9.60	1.92	2.31	8.40	0.41	0.49	1.79	0.50	1.64	2.20	0.10	0.12	0.43
FUG 0023 FUGWW-A													12.67	12.67	55.49
FUG 0024 Y-485							1.27	2.54	5.57				2.13	2.13	9.35

**EMISSION RATES FOR CRITERIA POLLUTANTS**

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070046

Permit Number: 2623-V5

Air - Title V Regular Permit Major Mod

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year												
Lake Charles Refinery - Area A															
FUG 0025 FUGPROC-A													34.82	34.82	152.50
FUG 0029 Y-8							0.60	1.20	2.63				1.01	1.01	4.42
GRP 0038 EP-136													2.31		10.07
RLP 0077 EP-218														1.51	
RLP 0079 EP-65	16.38	18.76	71.76	57.28	68.76	250.87	27.27	42.50	119.45	124.12	168.43	543.66	0.33	0.38	1.45

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote.

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070046

Permit Number: 2623-V5

Air - Title V Regular Permit Major Mod

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
ARE 0016 REMED-A	1,2-Dichloroethane	< 0.01	< 0.01	< 0.01
EQT 0529 H-18	Sulfuric acid	0.01	0.051	0.043
EQT 0533 H-24	Sulfuric acid	0.004	0.019	0.02
EQT 0534 H-26	Sulfuric acid	0.01	0.03	0.02
EQT 0536 H-3201	Sulfuric acid	0.002	0.01	0.01
EQT 0537 H-3001	Sulfuric acid	0.017	0.08	0.07
EQT 0538 H-3002	Sulfuric acid	0.017	0.08	0.07
EQT 0539 EP-64	2,2,4-Trimethylpentane	0.007	0.01	0.03
	n-Hexane	0.18	0.27	0.77
EQT 0542 T-2003	Hydrogen sulfide		< 0.001	
	Naphthalene (and Methyl naphthalenes)		0.002	
	Polynuclear Aromatic Hydrocarbons		< 0.001	
	Sulfuric acid		< 0.001	
EQT 0543 T-2004	Biphenyl	< 0.001	< 0.001	< 0.01
	Hydrogen sulfide	< 0.001	< 0.001	< 0.01
	Naphthalene (and Methyl naphthalenes)	< 0.001	0.001	< 0.01
	Polynuclear Aromatic Hydrocarbons	< 0.001	< 0.001	< 0.01
	Sulfuric acid	< 0.001	< 0.001	< 0.01
	Xylene (mixed isomers)	0.01	0.01	0.02
EQT 0544 T-2005	Hydrogen sulfide		< 0.001	
	Naphthalene (and Methyl naphthalenes)		0.002	
	Polynuclear Aromatic Hydrocarbons		< 0.001	
	Sulfuric acid		< 0.001	
EQT 0545 H-3951	Sulfuric acid	0.001	0.006	< 0.01
EQT 0546 H-3232	Sulfuric acid	0.002	0.01	0.01
EQT 0547 H-9	Sulfuric acid	0.006	0.029	0.03
EQT 0548 H-15	Sulfuric acid	0.001	0.007	< 0.01
EQT 0549 H-27	Sulfuric acid	0.003	0.03	0.01
EQT 0550 T-3086	Benzene	< 0.001	< 0.001	< 0.01
	Chromium VI (and compounds)	0.00002	0.00002	0.00009
	Cyanide compounds	0.000004	0.000004	0.00002
	Ethyl benzene	< 0.001	< 0.001	< 0.01
	Toluene	< 0.001	< 0.001	< 0.01
	Xylene (mixed isomers)	< 0.001	< 0.001	< 0.01

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070046

Permit Number: 2623-V5

Air - Title V Regular Permit Major Mod

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0565 H-74001	Sulfuric acid	0.01	0.03	0.03
EQT 0566 T-73001	Ammonia	0.001	0.002	< 0.01
	Hydrogen sulfide	0.01	0.01	0.03
EQT 0567 T-73002	Ammonia	0.001	0.002	< 0.01
	Hydrogen sulfide	0.01	0.01	0.03
FUG 0023 FUGWW-A	2,2,4-Trimethylpentane	0.11	0.11	0.46
	Aniline	0.01	0.01	0.06
	Arsenic (and compounds)	< 0.001	< 0.001	< 0.01
	Benzene	0.14	0.14	0.61
	Biphenyl	0.02	0.02	0.10
	Carbon disulfide	0.01	0.01	0.06
	Cumene	0.02	0.02	0.08
	Diethanolamine	0.01	0.01	0.06
	Ethyl benzene	0.12	0.12	0.51
	Hydrogen sulfide	0.001	0.001	< 0.01
	Lead compounds	< 0.001	< 0.001	< 0.01
	Naphthalene (and Methyl naphthalenes)	0.14	0.14	0.60
	Phenol	0.01	0.01	0.06
	Polynuclear Aromatic Hydrocarbons	0.10	0.10	0.45
	Pyridine	0.01	0.01	0.06
	Quinoline	0.01	0.01	0.06
	Selenium (and compounds)	0.001	0.001	< 0.01
	Sulfuric acid	< 0.001	< 0.001	< 0.01
	Toluene	0.39	0.39	1.72
	Vinyl acetate	0.01	0.01	0.06
Xylene (mixed isomers)	0.43	0.43	1.87	
n-Hexane	0.19	0.19	0.84	
para-Phenylenediamine	0.01	0.01	0.06	
FUG 0024 Y-4 & 5	1,1,1-Trichloroethane	0.003	0.003	0.01
	1,2-Dichloroethane	0.004	0.004	0.02
	1,3-Butadiene	< 0.001	0.001	< 0.01
	2,2,4-Trimethylpentane	0.006	0.006	0.03
	Ammonia	< 0.001	0.001	< 0.01
	Aniline	< 0.001	< 0.001	< 0.01

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070046

Permit Number: 2623-V5

Air - Title V Regular Permit Major Mod

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
FUG 0024 Y-4 & 5	Arsenic (and compounds)	< 0.001	< 0.001	< 0.01
	Benzene	0.008	0.008	0.04
	Biphenyl	0.004	0.004	0.02
	Carbon disulfide	< 0.001	< 0.001	< 0.01
	Chlorine	0.002	0.002	0.01
	Cumene	< 0.001	0.001	< 0.01
	Diethanolamine	< 0.001	< 0.001	< 0.01
	Ethyl benzene	0.007	0.007	0.03
	Hydrogen sulfide	< 0.001	< 0.001	< 0.01
	Lead compounds	0.00001	0.00001	0.00005
	Naphthalene (and Methyl naphthalenes)	0.019	0.019	0.08
	Phenol	< 0.001	< 0.001	< 0.01
	Polynuclear Aromatic Hydrocarbons	0.003	0.003	0.01
	Pyridine	< 0.001	< 0.001	< 0.01
	Quinoline	< 0.001	< 0.001	< 0.01
	Selenium (and compounds)	0.00002	0.00002	0.00009
	Styrene	< 0.001	< 0.001	< 0.01
	Sulfuric acid	0.019	0.019	0.08
	Toluene	0.02	0.024	0.11
	Vinyl acetate	< 0.001	< 0.001	< 0.01
Vinyl chloride	0.01	0.012	0.05	
Xylene (mixed isomers)	0.03	0.029	0.13	
n-Hexane	0.017	0.017	0.07	
para-Phenylenediamine	< 0.001	< 0.001	< 0.01	
FUG 0025 FUGPROC-A	1,3-Butadiene	0.01	0.01	0.07
	2,2,4-Trimethylpentane	0.09	0.09	0.39
	Ammonia	0.005	0.005	0.02
	Aniline	0.004	0.004	0.02
	Arsenic (and compounds)	< 0.001	< 0.001	< 0.01
	Benzene	0.13	0.13	0.56
	Biphenyl	0.04	0.04	0.18
	Carbon disulfide	0.002	0.002	< 0.01
	Cumene	0.01	0.01	0.05
	Diethanolamine	0.51	0.51	2.25

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070046

Permit Number: 2623-V5

Air - Title V Regular Permit Major Mod

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
FUG 0025 FUGPROC-A	Ethyl benzene	0.08	0.08	0.37
	Hydrogen sulfide	0.63	0.63	2.78
	Lead compounds	< 0.001	< 0.001	< 0.01
	Methanol	0.002	0.002	< 0.01
	Methyl Tertiary Butyl Ether	0.001	0.001	< 0.01
	Naphthalene (and Methyl naphthalenes)	0.14	0.14	0.60
	Phenol	0.01	0.01	0.03
	Polynuclear Aromatic Hydrocarbons	0.02	0.02	0.07
	Pyridine	0.004	0.004	0.02
	Quinoline	0.004	0.004	0.02
	Selenium (and compounds)	< 0.001	< 0.001	< 0.01
	Sulfuric acid	< 0.001	< 0.001	< 0.01
	Toluene	0.26	0.26	1.15
	Vinyl acetate	0.004	0.004	0.02
	Xylene (mixed isomers)	0.33	0.33	1.45
	n-Hexane	0.38	0.38	1.66
para-Phenylenediamine	0.004	0.004	0.02	
FUG 0029 Y-8	1,3-Butadiene	< 0.001	< 0.001	< 0.01
	2,2,4-Trimethylpentane	0.003	0.003	0.01
	Ammonia	0.003	0.003	< 0.01
	Aniline	< 0.001	< 0.001	< 0.01
	Arsenic (and compounds)	< 0.001	< 0.001	< 0.01
	Benzene	0.004	0.004	0.02
	Biphenyl	0.002	0.002	< 0.01
	Carbon disulfide	< 0.001	< 0.001	< 0.01
	Cumene	< 0.001	< 0.001	< 0.01
	Diethanolamine	< 0.001	< 0.001	< 0.01
	Ethyl benzene	0.003	0.003	0.01
	Hydrogen sulfide	< 0.001	< 0.001	< 0.01
	Lead compounds	< 0.001	< 0.001	< 0.01
	Methanol	< 0.001	< 0.001	< 0.01
	Methyl Tertiary Butyl Ether	< 0.001	< 0.001	< 0.01
	Naphthalene (and Methyl naphthalenes)	0.01	0.01	0.04
Phenol	< 0.001	< 0.001	< 0.01	

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070046

Permit Number: 2623-V5

Air - Title V Regular Permit Major Mod

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
FUG 0029 Y-8	Polynuclear Aromatic Hydrocarbons	0.002	0.002	< 0.01
	Pyridine	< 0.001	< 0.001	< 0.01
	Quinoline	< 0.001	< 0.001	< 0.01
	Selenium (and compounds)	< 0.001	< 0.001	< 0.01
	Sulfuric acid	< 0.001	< 0.001	< 0.01
	Toluene	0.01	0.01	0.05
	Vinyl acetate	< 0.001	< 0.001	< 0.01
	Xylene (mixed isomers)	0.01	0.01	0.06
	n-Hexane	0.01	0.01	0.02
	para-Phenylenediamine	< 0.001	< 0.001	< 0.01
GRP 0038 EP-136	Hydrogen sulfide	< 0.001		< 0.01
	Naphthalene (and Methyl naphthalenes)	0.006		0.03
	Polynuclear Aromatic Hydrocarbons	< 0.001		< 0.01
	Sulfuric acid	< 0.001		< 0.01
RLP 0077 EP-218	Hydrogen sulfide		< 0.001	
	Naphthalene (and Methyl naphthalenes)		0.003	
	Polynuclear Aromatic Hydrocarbons		< 0.001	
	Sulfuric acid		< 0.001	
RLP 0079 EP-65	Sulfuric acid	68.01	92.41	297.86
UNF 0002	1,1,1-Trichloroethane			0.01
	1,2-Dichloroethane			0.02
	1,3-Butadiene			0.07
	2,2,4-Trimethylpentane			0.92
	Ammonia			0.02
	Aniline			0.08
	Arsenic (and compounds)			< 0.01
	Benzene			1.23
	Biphenyl			0.30
	Carbon disulfide			0.06
	Chlorine			0.01
	Chromium VI (and compounds)			< 0.001
	Cumene			0.13
	Cyanide compounds			< 0.001
Diethanolamine			2.31	

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070046

Permit Number: 2623-V5

Air - Title V Regular Permit Major Mod

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
UNF 0002	Ethyl benzene			0.92
	Hydrogen sulfide			2.81
	Lead compounds			< 0.01
	Methanol			< 0.01
	Methyl Tertiary Butyl Ether			< 0.01
	Naphthalene (and Methyl naphthalenes)			1.35
	Phenol			0.09
	Polynuclear Aromatic Hydrocarbons			0.53
	Pyridine			0.08
	Quinoline			0.08
	Selenium (and compounds)			< 0.01
	Styrene			< 0.01
	Sulfuric acid			298.28
	Toluene			3.03
	Vinyl acetate			0.08
	Vinyl chloride			0.05
	Xylene (mixed isomers)			3.53
n-Hexane			3.36	
para-Phenylenediamine			0.08	

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote. Emission rates attributed to the UNF reflect the sum of the TAP/HAP limits of the individual emission points (or caps) under this permit, but do not constitute an emission cap.

**SPECIFIC REQUIREMENTS**

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070046

Permit Number: 2623-V5

Air - Title V Regular Permit Major Mod

**ARE0016 REMED-A - Area A Site Remediation Activities**

- 1 [40 CFR 63.7935(a)] Comply with the emission limitations (including operating limits) and the work practice standards in 40 CFR 63 Subpart GGGGG at all times, except during periods of startup, shutdown, and malfunction. Subpart GGGGG. [40 CFR 63.7935(a)]
- 2 [40 CFR 63.7935(b)] Operate and maintain facility, including air pollution control and monitoring equipment, according to the provisions in 40 CFR 63.6(e)(1)(i). Subpart GGGGG. [40 CFR 63.7935(b)]
- 3 [40 CFR 63.7935(c)] Develop a written startup, shutdown, and malfunction plan (SSMP) according to the provisions in 40 CFR 63.6(e)(3). Subpart GGGGG. [40 CFR 63.7935(c)]
- 4 [40 CFR 63.7935(g)] Develop and make available for inspection by DEQ, upon request, a site-specific monitoring plan that addresses the information specified in 40 CFR 63.7935(g) and (h), for each monitoring system required in 40 CFR 63.7935. Subpart GGGGG. [40 CFR 63.7935(g)]
- 5 [40 CFR 63.7935(i)] Operate and maintain the continuous monitoring system according to the site-specific monitoring plan. Subpart GGGGG. [40 CFR 63.7935(i)]
- 6 [40 CFR 63.7935(j)] Conduct a performance evaluation of each continuous monitoring system according to the site-specific monitoring plan. Subpart GGGGG. [40 CFR 63.7935(j)]
- 7 [40 CFR 63.7937(a)] Demonstrate initial compliance with the applicable general standards in 40 CFR 63.7884 through 63.7887 by meeting the requirements in 40 CFR 63.7937(b) through (d), as applicable. Subpart GGGGG. [40 CFR 63.7937(a)]
- 8 [40 CFR 63.7938(a)] Demonstrate continuous compliance with the applicable general standards in 40 CFR 63.7884 through 63.7887 by meeting the requirements in 40 CFR 63.7938(b) through (d), as applicable. Subpart GGGGG. [40 CFR 63.7938(a)]
- 9 [40 CFR 63.7950(a)] Submit all of the applicable notifications in 40 CFR 63.7(b) and (c), 63.8(e), 63.8(f)(4) and (6), and 63.9(b) through (h), as specified in 40 CFR 63.7950. Subpart GGGGG. [40 CFR 63.7950(a)]
- 10 [40 CFR 63.7951(c)] Submit immediate startup, shutdown, and malfunction report: Due according to the requirements of 40 CFR 63.10(d)(5)(ii) if there was a startup, shutdown, or malfunction during the semiannual reporting period that was not consistent with the startup, shutdown, and malfunction plan. Subpart GGGGG. [40 CFR 63.7951(c)]
- 11 [40 CFR 63.7951] Submit compliance status report: Due semiannually, by the 31st of January and July. Include the information specified in 40 CFR 63.7951(b)(1) through (b)(3) and, as applicable, (b)(4) through (b)(9). Subpart GGGGG.
- 12 [40 CFR 63.7952] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in 40 CFR 63.7952(a) through (d), as applicable. -Subpart GGGGG.
- 13 [40 CFR 63.7953(a)] Keep records in a form suitable and readily available for expeditious review, according to 40 CFR 63.10(b)(1). Keep files of all information (including all reports and notifications) for 5 years following the date of each occurrence, measurement, maintenance, action taken to correct the cause of a deviation, report, or record, as specified in 40 CFR 63.10(b)(1). Keep each record on site for at least 2 years after the date of each occurrence, measurement, maintenance, correction action, report, or record, according to 40 CFR 63.10(b)(1). Records may be kept off-site for the remaining 3 years. Subpart GGGGG. [40 CFR 63.7953(a)]
- 14 [LAC 33:III.5109.A] Comply with 40 CFR 63, Subpart GGGGG.

**CRG0005 Requirements for Heaters**

Group Members: EQT0529 EQT0533 EQT0547 EQT0548

- 15 [40 CFR 60.104(a)(1)] Fuel gas: Hydrogen sulfide  $\leq 0.1$  gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]  
Which Months: All Year Statistical Basis: Three-hour rolling average

**SPECIFIC REQUIREMENTS**

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

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**CRG0005 Requirements for Heaters**

- 16 [40 CFR 60.105(a)(4)] Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Monitor the H2S in fuel gases before being burned in any fuel gas combustion device. Subpart J. [40 CFR 60.105(a)(4)]  
Which Months: All Year Statistical Basis: None specified
- 17 [40 CFR 60.106(a)] Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]  
Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J.
- 18 [40 CFR 60.106] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
- 19 [LAC 33:III.1305.A.1-7] Which Months: All Year Statistical Basis: None specified  
Total suspended particulate <= 0.6 lb/MMBTU of heat input.  
Which Months: All Year Statistical Basis: None specified
- 20 [LAC 33:III.1313.C] Which Months: All Year Statistical Basis: None specified

**CRG0007 Requirements for Tanks**

Group Members: EQT0540 EQT0541 EQT0542 EQT0543 EQT0544

- 21 [40 CFR 63.654(i)(iv)] Comply with recordkeeping requirement of 40 CFR 63.654(i)(iv). [40 CFR 63.654(i)(iv)]
- 22 [LAC 33:III.5109.A] Comply with 40 CFR 63, Subpart CC.

**EQT0530 EP-130 - Premium Coke Crusher & Transfer Operations**

- 23 [LAC 33:III.1305] Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.A.1-7.
- 24 [LAC 33:III.1311.B] Total suspended particulate <= 70.7 lb/hr. The rate of emission shall be the total of all emission points from the source.  
Which Months: All Year Statistical Basis: None specified

**EQT0531 EP-134 - Premium Coke Handling, Transfer and Loading Operations**

- 25 [LAC 33:III.1305] Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.A.1-7.
- 26 [LAC 33:III.1311.B] Total suspended particulate <= 70.7 lb/hr. The rate of emission shall be the total of all emission points from the source.  
Which Months: All Year Statistical Basis: None specified

**EQT0532 EP-135 - Fuel Coke Handling, Transfer and Loading Operations**

- 27 [LAC 33:III.1305] Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.A.1-7.

**SPECIFIC REQUIREMENTS**

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070046

Permit Number: 2623-V5

Air - Title V Regular Permit Major Mod

**EQT0532 EP-135 - Fuel Coke Handling, Transfer and Loading Operations**

28 [LAC 33:III.1311.B] Total suspended particulate <= 76.9 lb/hr. The rate of emission shall be the total of all emission points from the source.  
Which Months: All Year Statistical Basis: None specified

**EQT0534 H-26 - No. 1 Premium Coker Heater (EP-45)**

- 29 [40 CFR 60.104(a)(1)] Fuel gas: Hydrogen sulfide <= 0.1 gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]  
Which Months: All Year Statistical Basis: Three-hour rolling average
- 30 [40 CFR 60.105(a)(4)] Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Monitor the H2S in fuel gases before being burned in any fuel gas combustion device. Subpart J. [40 CFR 60.105(a)(4)]  
Which Months: All Year Statistical Basis: None specified
- 31 [40 CFR 60.106(a)] Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]
- 32 [40 CFR 60.106] Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J.
- 33 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.  
Which Months: All Year Statistical Basis: None specified
- 34 [LAC 33:III.1313.C] Total suspended particulate <= 0.6 lb/MMBTU of heat input.  
Which Months: All Year Statistical Basis: None specified
- 35 [LAC 33:III.501.C.6] Carbon monoxide <= 0.04 lb/MMBTU (365-day rolling average) per Consent Decree lodged December 20, 2001, Civil Action No. H-01-4430.  
Which Months: All Year Phases: Statistical Basis: Carbon monoxide <= 0.06 lb/MMBTU per Consent Decree lodged December 20, 2001, Civil Action No. H-01-4430.
- 36 [LAC 33:III.501.C.6] Which Months: All Year Statistical Basis: 24-hour average
- 37 [LAC 33:III.501.C.6] Low-NOx burners (0.03 lb NOx/MM BTU) shall be maintained on this heater per Consent Decree lodged December 20, 2001, Civil Action No. H-01-4430.
- 38 [LAC 33:III.501.C.6] Nitrogen oxides <= 0.03 lb/MMBTU (365-day rolling average) per Consent Decree lodged December 20, 2001, Civil Action No. H-01-4430.  
Which Months: All Year Phases: Statistical Basis:

**EQT0536 H-3201 - No. 7 HDS HVGO Heater (EP-55)**

- 39 [40 CFR 60.104(a)(1)] Fuel gas: Hydrogen sulfide <= 0.1 gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]  
Which Months: All Year Statistical Basis: Three-hour rolling average
- 40 [40 CFR 60.105(a)(4)] Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Monitor the H2S in fuel gases before being burned in any fuel gas combustion device. Subpart J. [40 CFR 60.105(a)(4)]  
Which Months: All Year Statistical Basis: None specified
- 41 [40 CFR 60.106(a)] Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]
- 42 [40 CFR 60.106] Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J.

**SPECIFIC REQUIREMENTS**

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery  
 Activity Number: PER20070046  
 Permit Number: 2623-V5  
 Air - Title V Regular Permit Major Mod

**EQT0536 H-3201 - No. 7 HDS HVGO Heater (EP-55)**

- 43 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.  
 Which Months: All Year Statistical Basis: None specified
- 44 [LAC 33:III.1313.C] Total suspended particulate <= 0.6 lb/MMBTU of heat input.  
 Which Months: All Year Statistical Basis: None specified
- 45 [LAC 33:III.509] Low-NOx burners (0.06 lb NOx/MM BTU) shall be maintained on this heater. PSD-LA-584 (M-3).
- 46 [LAC 33:III.509] Shall continuously monitor and record flue gas oxygen concentrations in accordance with "Use of Flue Gas Oxygen Monitors for Combustion Controls" given in Appendix B. PSD-LA-584 (M-3).

**EQT0537 H-3001 - No. 2 Coker Heater (EP-57)**

- 47 [40 CFR 60.104(a)(1)] Fuel gas: Hydrogen sulfide <= 0.1 gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]  
 Which Months: All Year Statistical Basis: Three-hour rolling average
- 48 [40 CFR 60.105(a)(4)] Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Monitor the H2S in fuel gases before being burned in any fuel gas combustion device. Subpart J. [40 CFR 60.105(a)(4)]  
 Which Months: All Year Statistical Basis: None specified
- 49 [40 CFR 60.106(a)] Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]  
 Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J.
- 50 [40 CFR 60.106] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.  
 Which Months: All Year Statistical Basis: None specified
- 51 [LAC 33:III.1101.B] Total suspended particulate <= 0.6 lb/MMBTU of heat input.  
 Which Months: All Year Statistical Basis: None specified
- 52 [LAC 33:III.1313.C] Opacity is limited to 10% per PSD Permit No. PSD-LA-533 (M-3).
- 53 [LAC 33:III.509] Shall burn refinery fuel gas, hydrogen, or sweet natural gas only. The refinery fuel gas shall not exceed 0.1 grain of H2S per dry standard cubic foot. PSD-LA-584 (M-3).
- 54 [LAC 33:III.509] Shall continuously monitor and record flue gas oxygen concentrations in accordance with "Use of Flue Gas Oxygen Monitors as BACT for Combustion Controls" given in Appendix A. PSD-LA-533 (M-3).
- 55 [LAC 33:III.509]

**EQT0538 H-3002 - No. 2 Coker Heater (EP-58)**

- 56 [40 CFR 60.104(a)(1)] Fuel gas: Hydrogen sulfide <= 0.1 gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]  
 Which Months: All Year Statistical Basis: Three-hour rolling average

**SPECIFIC REQUIREMENTS**

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070046

Permit Number: 2623-V5

Air - Title V Regular Permit Major Mod

**EQT0538 H-3002 - No. 2 Coker Heater (EP-58)**

- 57 [40 CFR 60.105(a)(4)] Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Monitor the H2S in fuel gases before being burned in any fuel gas combustion device. Subpart J. [40 CFR 60.105(a)(4)]  
Which Months: All Year Statistical Basis: None specified
- 58 [40 CFR 60.106(a)] Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106(a) through (k). Subpart J. [40 CFR 60.106(a)]  
Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J.
- 59 [40 CFR 60.106] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.  
Which Months: All Year Statistical Basis: None specified
- 60 [LAC 33:III.1101.B] Total suspended particulate <= 0.6 lb/MMBTU of heat input.  
Which Months: All Year Statistical Basis: None specified
- 61 [LAC 33:III.1313.C] Opacity is limited to 10% per PSD Permit No. PSD-LA-533 (M-3).
- 62 [LAC 33:III.509] Shall burn refinery fuel gas, hydrogen, or sweet natural gas only. The refinery fuel gas shall not exceed 0.1 grain of H2S per dry standard cubic foot. PSD-LA-584 (M-4).
- 63 [LAC 33:III.509] Shall continuously monitor and record flue gas oxygen concentrations in accordance with "Use of Flue Gas Oxygen Monitors as BACT for Combustion Controls" given in Appendix A. PSD-LA-533 (M-3).

**EQT0539 EP-64 - North Flare**

- 65 [40 CFR 60.104(a)(1)] Fuel gas: Hydrogen sulfide <= 0.1 gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]  
Which Months: All Year Statistical Basis: Three-hour rolling average
- 66 [40 CFR 60.105(a)(4)] Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Monitor the H2S in fuel gases before being burned in any fuel gas combustion device. Subpart J. [40 CFR 60.105(a)(4)]  
Which Months: All Year Statistical Basis: None specified
- 67 [40 CFR 60.106(a)] Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]  
Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J.
- 68 [40 CFR 60.106] Design and operate for no visible emissions, as determined by the methods specified in 40 CFR 60.18(f), except for periods not to exceed a total of 5 minutes during any two consecutive hours. Subpart A. [40 CFR 60.18(c)(1)]
- 69 [40 CFR 60.18(c)(1)] Operate with a flame present at all times, as determined by the methods specified in 40 CFR 60.18(f)(2). Subpart A. [40 CFR 60.18(c)(2)]  
Heat content >= 300 BTU/scf (11.2 MJ/scm). Determine the net heating value of the gas being combusted by the methods specified in 40 CFR 60.18(f)(3). Subpart A. [40 CFR 60.18(c)(3)(ii)]
- 70 [40 CFR 60.18(c)(2)] Which Months: All Year Statistical Basis: None specified
- 71 [40 CFR 60.18(c)(3)(ii)] Exit Velocity < 60 ft/sec (18.3 m/sec), as determined by the method specified in 40 CFR 60.18(f)(4). Subpart A. [40 CFR 60.18(c)(4)(i)]  
Which Months: All Year Statistical Basis: None specified

**SPECIFIC REQUIREMENTS**

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070046

Permit Number: 2623-V5

Air - Title V Regular Permit Major Mod

**EQ10539 EP-64 - North Flare**

- 73 [40 CFR 60.18(c)(4)(ii)] Exit Velocity  $\geq 60$  and  $< 400$  ft/sec (18.3 m/sec and 122 m/sec), as determined by the method specified in 40 CFR 60.18(f)(4). Subpart A. [40 CFR 60.18(c)(4)(ii)]  
Which Months: All Year Statistical Basis: None specified
- 74 [40 CFR 60.18(c)(4)(iii)] Exit Velocity  $< 400$  ft/sec (122 m/sec), as determined by the method specified in 40 CFR 60.18(f)(4), and less than the velocity  $V_{max}$ , as determined by the method specified in 40 CFR 60.18(f)(5). Subpart A. [40 CFR 60.18(c)(4)(iii)]  
Which Months: All Year Statistical Basis: None specified
- 75 [40 CFR 60.18(d)] Monitor flares to ensure that they are operated and maintained in conformance with their designs. Applicable subparts will provide provisions stating how to monitor flares. Subpart A. [40 CFR 60.18(d)]
- 76 [40 CFR 60.18(e)] Operate at all times when emissions may be vented to the flare. Subpart A. [40 CFR 60.18(c)]
- 77 [40 CFR 60.18(f)(2)] Presence of a flame monitored by flame monitor continuously. Use a thermocouple or any other equivalent device to detect the presence of a flare pilot flame. Subpart A. [40 CFR 60.18(f)(2)]  
Which Months: All Year Statistical Basis: None specified
- 78 [LAC 33:III.1105] Opacity  $\leq 20$  percent, except for a combined total of six hours in any 10 consecutive day period, for burning in connection with pressure valve releases for control over process upsets.  
Which Months: All Year Statistical Basis: None specified
- 79 [LAC 33:III.1105] Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services Division, Single Point of Contact (SPOC), as soon as possible after the start of burning of pressure valve releases for control over process upsets. Notify in accordance with LAC 33:1.3923. Notification is required only if the upset cannot be controlled in six hours.  
Comply with NSPS Subpart J.
- 80 [LAC 33:III.1503.C] Emissions from the North Flare due to Start-up, Shut-down, or Malfunction are not authorized by this permit and shall be reported as required by 40 CFR 70.5(d) and LAC 33:1.Chapter 39.
- 81 [LAC 33:III.501.C.6] Comply with Louisiana MACT Determination for Refinery dated July 26, 1994.
- 82 [LAC 33:III.5109.A]

**EQ10545 H-3951 - No. 8 HDS Heater (EP-67)**

- 83 [40 CFR 60.104(a)(1)] Fuel gas: Hydrogen sulfide  $\leq 0.1$  gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]  
Which Months: All Year Statistical Basis: Three-hour rolling average
- 84 [40 CFR 60.105(a)(4)] Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Monitor the H2S in fuel gases before being burned in any fuel gas combustion device. Subpart J. [40 CFR 60.105(a)(4)]  
Which Months: All Year Statistical Basis: None specified
- 85 [40 CFR 60.106(a)] Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]
- 86 [40 CFR 60.106] Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J.
- 87 [LAC 33:III.1101.B] Opacity  $\leq 20$  percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.  
Which Months: All Year Statistical Basis: None specified

**SPECIFIC REQUIREMENTS**

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070046

Permit Number: 2623-V5

Air - Title V Regular Permit Major Mod

**EQ10545 H-3951 - No. 8 HDS Heater (EP-67)**

- 88 [LAC 33:III.1313.C] Total suspended particulate <= 0.6 lb/MMBTU of heat input. Which Months: All Year Statistical Basis: None specified
- 89 [LAC 33:III.509] Opacity is limited to 10% per PSD Permit No. PSD-LA-533 (M-3).
- 90 [LAC 33:III.509] Shall burn refinery fuel gas, hydrogen, or sweet natural gas only. The refinery fuel gas shall not exceed 0.1 grain of H2S per dry standard cubic foot. PSD-LA-584 (M-3).

**EQ10546 H-3232 - No. 7 HDS Heater (EP-73)**

- 91 [40 CFR 60.104(a)(1)] Fuel gas: Hydrogen sulfide <= 0.1 gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)] Which Months: All Year Statistical Basis: Three-hour rolling average
- 92 [40 CFR 60.105(a)(4)] Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Monitor the H2S in fuel gases before being burned in any fuel gas combustion device. Subpart J. [40 CFR 60.105(a)(4)] Which Months: All Year Statistical Basis: None specified
- 93 [40 CFR 60.106(a)] Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)] Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J.
- 94 [40 CFR 60.106] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
- 95 [LAC 33:III.1101.B] Which Months: All Year Statistical Basis: None specified
- 96 [LAC 33:III.1313.C] Total suspended particulate <= 0.6 lb/MMBTU of heat input. Which Months: All Year Statistical Basis: None specified
- 97 [LAC 33:III.509] Low-NOx burners (0.06 lb NOx/MM BTU) shall be maintained on this heater. PSD-LA-584 (M-4).
- 98 [LAC 33:III.509] Opacity is limited to 10% per PSD Permit No. PSD-LA-533 (M-3).
- 99 [LAC 33:III.509] Shall burn refinery fuel gas, hydrogen, or sweet natural gas only. The refinery fuel gas shall not exceed 0.1 grain of H2S per dry standard cubic foot. PSD-LA-584 (M-4).
- 100 [LAC 33:III.509] Shall continuously monitor and record flue gas oxygen concentrations in accordance with "Use of Flue Gas Oxygen Monitors for Combustion Controls" given in Appendix B. PSD-LA-584 (M-4).

**EQ10549 H-27 - No. 1 Coker Heater (EP-86)**

- 101 [40 CFR 60.104(a)(1)] Fuel gas: Hydrogen sulfide <= 0.1 gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)] Which Months: All Year Statistical Basis: Three-hour rolling average
- 102 [40 CFR 60.105(a)(4)] Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Monitor the H2S in fuel gases before being burned in any fuel gas combustion device. Subpart J. [40 CFR 60.105(a)(4)] Which Months: All Year Statistical Basis: None specified
- 103 [40 CFR 60.106(a)] Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]

**SPECIFIC REQUIREMENTS**

**AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery**

**Activity Number: PER20070046**

**Permit Number: 2623-V5**

**Air - Title V Regular Permit Major Mod**

**EQ10549 H-27 - No. 1 Coker Heater (EP-86)**

- 104 [40 CFR 60.106] Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J.
- 105 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.  
Which Months: All Year Statistical Basis: None specified
- 106 [LAC 33:III.1313.C] Total suspended particulate <= 0.6 lb/MMBTU of heat input.  
Which Months: All Year Statistical Basis: None specified
- 107 [LAC 33:III.501.C.6] Low-NOx burners (0.12 lb NOx/MM BTU) shall be maintained on this heater.

**EQ10550 T-3086 - Slurry Day Tank**

- 108 [LAC 33:III.5109.A] Low vapor pressure. No additional control is required.

**EQ10565 No. 6 HDS Heater**

- 109 [40 CFR 60.100a] Upon effective of NSPS Subpart Ja, the source will be no longer subject to the requirements of NSPS Subpart J and shall comply with all applicable requirements of NSPS Subpart Ja.
- 110 [40 CFR 60.104(a)(1)] Fuel gas: Hydrogen sulfide <= 0.1 gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]  
Which Months: All Year Statistical Basis: Three-hour rolling average
- 111 [40 CFR 60.105(a)(4)] Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Monitor the H2S in fuel gases before being burned in any fuel gas combustion device. Subpart J. [40 CFR 60.105(a)(4)]  
Which Months: All Year Statistical Basis: None specified
- 112 [40 CFR 60.106(a)] Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]
- 113 [40 CFR 60.106] Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J.
- 114 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.  
Which Months: All Year Statistical Basis: None specified
- 115 [LAC 33:III.1313.C] Total suspended particulate <= 0.6 lb/MMBTU of heat input.  
Which Months: All Year Statistical Basis: None specified
- 116 [LAC 33:III.501.C.6] To ensure compliance with permitted emission limits, permittee shall conduct performance tests for NOx and CO emissions from this heater using test methods and procedures from New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E-Determination of Nitrogen Oxides Emissions from Stationary Sources, and Method 10-Determination of Carbon Monoxide emissions from Stationary Sources.  
Low-NOx burners (0.035 lb NOx/MM BTU) shall be maintained on the heater. PSD-LA-735.
- 117 [LAC 33:III.509] Permittee shall continuously monitor and record flue gas oxygen concentrations and firebox temperatures in accordance with the "Use of flue gas oxygen monitors for combustion controls" in Appendix B. PSD-LA-735.
- 118 [LAC 33:III.509]

**SPECIFIC REQUIREMENTS**

**AJ ID: 2538 - ConocoPhillips Co - Lake Charles Refinery**  
**Activity Number: PER20070046**  
**Permit Number: 2623-V5**  
**Air - Title V Regular Permit Major Mod**

**EQT0565 No. 6 HDS Heater**

119 [LAC 33:III.509]

The heat input to this heater is limited to 480,048 MM BTU (high heating value) per year. To ensure compliance with this limit, the permittee shall record operating hours and heat input rate (or fuel input rate) to the source. The heat input to the heater shall be calculated based on the operating hours and heat input rate and shall be recorded each month. The calculated heat input for last twelve months shall also be recorded. These records shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. Total heat input to the heater over the annual maximum (480,048 MM BTU/year) for any twelve consecutive month period shall be considered a violation of this permit and must be reported to the Office of Environmental Compliance, Enforcement Division. A report showing monthly heat input to the heater for the preceding calendar year shall be submitted to Office of Environmental Compliance, Enforcement Division by March 31. PSD-LA-735.

**EQT0566 Internal Floating Roof Tank**

120 [LAC 33:III.5107.A.2]

Emits Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

**EQT0567 Internal Floating Roof Tank**

121 [LAC 33:III.5107.A.2]

Emits Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

**FUG0023 FUGWW-A - Area A Drain, Sumps, and Junction Box Fugitives (EP-148)**

122 [40 CFR 60.692-4]

Comply with the requirements of 40 CFR 60.692-2 and 60.692-3. Subpart QQQ.

123 [40 CFR 60.696(a)]

Before using any equipment installed in compliance with 40 CFR 60.692-2, 60.692-3, 60.692-4, 60.692-5, or 60.693, inspect such equipment for indication of potential emissions, defects, or other problems that may cause requirements of 40 CFR 60 Subpart QQQ not to be met. Subpart QQQ. [40 CFR 60.696(a)]

124 [40 CFR 60.697(a)]

Retain all records required by 40 CFR 60 Subpart QQQ for a period of 2 years after being recorded unless otherwise noted. Subpart QQQ. [40 CFR 60.697(a)]

125 [40 CFR 60.697(e)]

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep the records specified in 40 CFR 60.697(e)(1) through (e)(4), as applicable. Subpart QQQ. [40 CFR 60.697(e)]

126 [40 CFR 60.697(f)]

Retain the records specified in 40 CFR 60.697(f)(1) through (f)(3) for the life of the source in a readily accessible location. Subpart QQQ. [40 CFR 60.697(f)]

127 [40 CFR 60.698(b)(1)]

Submit Notification. Due within 60 days after initial startup. Submit a certification that the equipment necessary to comply with 40 CFR 60 Subpart QQQ has been installed and that the required initial inspections or tests of process drains, sewer lines, junction boxes, oil-water separators, and closed vent systems and control devices have been carried out in accordance with 40 CFR 60 Subpart QQQ. Thereafter, submit a certification semiannually that all of the required inspections have been carried out in accordance with 40 CFR 60 Subpart QQQ. Subpart QQQ. [40 CFR 60.698(b)(1)]

**SPECIFIC REQUIREMENTS**

**ACTIVITY ID: 2538 - ConocoPhillips Co - Lake Charles Refinery**

**Activity Number: PER20070046**

**Permit Number: 2623-V5**

**Air - Title V Regular Permit Major Mod**

**FUG0023 FUGWW-A - Area A Drain, Sumps, and Junction Box Fugitives (EP-148)**

- 128 [40 CFR 60.698(c)] Submit report: Due initially and semiannually thereafter. Submit a report that summarizes all inspections when a water seal was dry or otherwise breached, when a drain cap or plug was missing or improperly installed, or when cracks, gaps, or other problems were identified that could result in VOC emissions, including information about the repairs or corrective action taken. Subpart QQ. [40 CFR 60.698(c)]
- 129 [40 CFR 61.346(a)(1)(i)(A)] Cover: Ensure that the cover and all openings are designed to operate with no detectable emissions as indicated by an instrument reading of less than 500 ppmv above background, initially and thereafter at least once per year by the methods specified in 40 CFR 61.355(h). Subpart FF. [40 CFR 61.346(a)(1)(i)(A)]
- 130 [40 CFR 61.346(a)(1)(i)(B)] Maintain each opening in a closed, sealed position at all times that waste is in the drain system except when it is necessary to use the opening for waste sampling or removal, or for equipment inspection, maintenance, or repair, except as specified in 40 CFR 61.346(a)(1)(i)(C). Subpart FF. [40 CFR 61.346(a)(1)(i)(B)]
- 131 [40 CFR 61.346(a)(1)] Install, operate, and maintain a cover and closed-vent system that routes all organic vapors vented from the drain system to a control device. Subpart FF. [40 CFR 61.346(a)(1)]
- 132 [40 CFR 61.346(a)(2)] Cover: Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter to ensure that no cracks or gaps occur and that access hatches and other openings are closed and gasketed properly. Subpart FF. [40 CFR 61.346(a)(2)]  
Which Months: All Year Statistical Basis: None specified
- 133 [40 CFR 61.346(a)(3)] Make first efforts at repair as soon as practicable, but not later than 15 calendar days after a broken seal or gasket or other problem is identified, or when detectable emissions are measured, except as provided in 40 CFR 61.350. Subpart FF. [40 CFR 61.346(a)(3)]
- 134 [40 CFR 61.355] Determine compliance with 40 CFR 61 Subpart FF using the test methods and procedures specified in 40 CFR 61.355(a) through (i), as applicable. Subpart FF.
- 135 [40 CFR 61.356] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency Maintain records as specified in 40 CFR 61.356(a) through (n), as applicable. Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF.
- 136 [40 CFR 63.647(a)] Comply with the requirements of 40 CFR 61.340 through 61.355 of 40 CFR part 61, subpart FF, except as provided in 40 CFR 63.647(b). Subpart CC. [40 CFR 63.647(a)]
- 137 [40 CFR 63.654(a)] Comply with the recordkeeping and reporting provisions in 40 CFR 61.356 and 61.35763 of 40 CFR 61 Subpart FF, unless complying with the wastewater provisions specified in 40 CFR 63.640(o)(2)(ii). Subpart CC. [40 CFR 63.654(a)]
- 138 [LAC 33:III.5109-A] Comply with 40 CFR 63, Subpart CC.

**FUG0024 Y-4 & 5 - Cooling Tower Fugitives (EP-153)**

- 139 [LAC 33:III.5109-A] This cooling tower shall be analyzed at least once every quarter for volatile organic compounds (VOC). EPA Method 6200 of the Standard Method for the Examination of Water and Wastewater shall be used for the analysis. Records of the analysis shall be maintained on site and available for inspection. An annual report of all VOC detected in the cooling water samples and the amount detected shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding calendar year - determined as MACT.

**FUG0025 FUGPROC-A - Area A Process Fugitives (EP-244)**

- 140 [40 CFR 60.590] Comply with 40 CFR 60 Subpart GGG by implementing the Louisiana Consolidated Fugitive Emission Program Guidelines. Compliance is achieved through compliance with Louisiana Refinery MACT Determination dated July 26, 1994.

**SPECIFIC REQUIREMENTS**

**AJ ID: 2538 - ConocoPhillips Co - Lake Charles Refinery**

**Activity Number: PER20070046**

**Permit Number: 2623-V5**

**Air - Title V Regular Permit Major Mod**

**FUG0025 FUGPROC-A - Area A Process Fugitives (EP-244)**

- 141 [40 CFR 63.648(a)] Comply with 40 CFR 63 Subpart H, except as provided in 40 CFR 63.648(c) through (i). Subpart CC. [40 CFR 63.648(a)]
- 142 [40 CFR 63.648(a)] Comply with the provisions of 40 CFR 60 Subpart VV and 40 CFR 63.648(b) except as provided in 40 CFR 63.648(a)(1), (a)(2), and (c) through (i). Subpart CC. [40 CFR 63.648(a)]
- 143 [40 CFR 63.648(c)] Comply with the requirements of 40 CFR 63.161 through 63.169, 63.171, 63.172, 63.175, 63.176, 63.177, 63.179, and 63.180 except as specified in 40 CFR 63.648(c)(1) through (c) through (i). Subpart CC. [40 CFR 63.648(c)]
- 144 [40 CFR 63.648(h)] Maintain all records for a minimum of 5 years. Subpart CC. [40 CFR 63.648(h)]
- 145 [40 CFR 63.654(d)] Comply with the recordkeeping and reporting provisions in 40 CFR 63.654(d)(1) through (d)(6). Subpart CC. [40 CFR 63.654(d)]
- 146 [LAC 33:III.2111] Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment.
- 147 [LAC 33:III.2122] Comply with LAC 33:III.2122 by implementing the Louisiana Consolidated Fugitive Emission Program Guidelines. Compliance is achieved through compliance with Louisiana Refinery MACT Determination dated July 26, 1994.
- 148 [LAC 33:III.501.C.6] Shall comply the streamlined equipment leak monitoring program specified in Appendix C.
- 149 [LAC 33:III.501.C.6] The number of each type of component required to be monitored for each monitoring period under applicable leak detection and repair programs shall be reported to the LDEQ by inclusion with each periodic monitoring report. Fugitive emission piping components may be added to or removed from the permitted units without triggering the need to apply for a permit modification, provided:
  - a) Changes in components involve routine maintenance or are undertaken to address safety concerns, or involve small piping revisions with no associated emissions increase except from the fugitive emission components themselves;
  - b) The changes do not involve any associated increase in production rate or capacity, or tie in of new or modified process equipment other than the piping components;
  - c) Actual emissions following the changes will not exceed the emission limits contained in this permit; and
  - d) The components are promptly incorporated into any applicable leak detection or repair program.
- 150 [LAC 33:III.5109.A] Attach a weatherproof and readily visible identification, marked with the equipment identification, to leaking equipment, as specified in Subsection Q.2 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
- 151 [LAC 33:III.5109.A] Comply with the test methods and procedures in Section P, as specified in Subsections P.1 through P.5 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
- 152 [LAC 33:III.5109.A] Compressors (no detectable emissions): Demonstrate that the compressor is operating with no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as measured by the method specified in Subsection P.3, as specified in Paragraph E.10.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the requirements in Subsections E.2 through E.9.
- 153 [LAC 33:III.5109.A] Compressors (no detectable emissions): VOC, Total monitored by the regulation's specified method(s) once initially upon designation, annually, and at other times requested by DEQ, as specified in Paragraph E.10.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the requirements in Subsections E.2 through E.9.
- 154 [LAC 33:III.5109.A] Which Months: All Year Statistical Basis: None specified  
Compressors (seal system): Operate with the barrier fluid at a pressure that is greater than the compressor stuffing box pressure, or equip with a barrier fluid system that is connected by a closed-vent system to a control device that complies with the requirements of Section N, or equip with a system that purges the barrier fluid into a process stream with zero VOTAP emission to the atmosphere, as specified in Subsection E.3 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).

**SPECIFIC REQUIREMENTS**

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070046

Permit Number: 2623-V5

Air - Title V Regular Permit Major Mod

**FUG0025 FUGPROC-A - Area A Process Fugitives (EP-244)**

155 [LAC 33:III.5109.A]

Compressors (seal system): VOC, Total monitored by the regulation's specified method(s) quarterly, as specified in Subsection E.1 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor to detect leaks using the methods specified in Section P. If an instrument reading of 5000 ppm is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection E.8.

Which Months: All Year Statistical Basis: None specified

156 [LAC 33:III.5109.A]

Compressors: Determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both, as specified in Paragraph E.6.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).

157 [LAC 33:III.5109.A]

Compressors: Ensure that the barrier fluid is not in VOTAP service and, if the compressor is covered by a standard under NSPS, is not in VOC service, as specified in Subsection E.4 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).

158 [LAC 33:III.5109.A]

Compressors: Equip each barrier fluid system as described in Subsections E.2 through E.4 with a sensor that will detect failure of the seal system, the barrier fluid system, or both, as specified in Subsection E.5 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).

159 [LAC 33:III.5109.A]

Compressors: Equip with a closed-vent system capable of capturing and transporting any leakage from the seal to a control device that complies with the requirements of Section N, except as provided for in Subsection E.10, as specified in Paragraph E.9 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Alternative to Subsections E.1 through E.7.

160 [LAC 33:III.5109.A]

Compressors: Equip with a seal system that includes a barrier fluid system and that prevents leakage of process fluid to the atmosphere, except as provided for in Subsections C.4, E.9 and E.10, as specified in Subsection E.2 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).

161 [LAC 33:III.5109.A]

Compressors: Equipment/operational data monitored by technically sound method daily, as specified in Paragraph E.6.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Check each sensor as required in Subsection E.5 daily or equip with an audible alarm unless the compressor is located within the boundary of an unmanned plant site. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on criterion determined under Paragraph E.6.b, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection E.8.

Which Months: All Year Statistical Basis: None specified

162 [LAC 33:III.5109.A]

Compressors: Repair leaks as soon as practicable, but not later than 15 calendar days after a leak is detected, except as provided in Section M, as specified in Subsection E.8 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Make a first attempt at repair no later than 5 calendar days after each leak is detected.

163 [LAC 33:III.5109.A]

Connectors in gas/vapor service and in light liquid service  $\geq$  one inch in inside diameter size (inaccessible or glass or glass-lined): Repair leaks as soon as practicable, but no later than 15 calendar days after detecting a leak by visual, audible, olfactory or other means, except as specified in Subsection O.8, as specified in Subsection O.11.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Make a first attempt at repair no later than 5 calendar days after the leak is detected, as specified in Subsection O.11.c of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the monitoring requirements of Subsection O.2 through O.6 and the recordkeeping and reporting requirements.

**SPECIFIC REQUIREMENTS**

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070046

Permit Number: 2623-V5

Air - Title V Regular Permit Major Mod

**FUG0025 FUGPROC-A - Area A Process Fugitives (EP-244)**

164 [LAC 33:III.5109.A]

Connectors in gas/vapor service and in light liquid service  $\geq$  one inch in inside diameter size (opened or otherwise had the seal broken): VOC, Total monitored by the regulation's specified method(s) at the regulation's specified frequency. Monitor for leaks after being returned to VOTAP service during the next scheduled monitoring period, as specified in Paragraph O.8 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Section P: If the follow-up monitoring detects a leak, initiate repair provisions specified in Subsection O.9, unless it is determined to be unrepairable, in which case it is counted as unrepairable.

Which Months: All Year Statistical Basis: None specified

165 [LAC 33:III.5109.A]

Connectors in gas/vapor service and in light liquid service  $\geq$  one inch in inside diameter size (percent of leaking connectors  $\leq$  2): VOC, Total monitored by the regulation's specified method(s) annually, as specified in Subsections O.2 and O.4 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitoring must be performed in the same calendar quarter as the previous monitoring. Monitor using the method specified in Section P. If an instrument reading  $\geq$  1000 ppm is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection O.9, except as provided in Section M.

Which Months: All Year Statistical Basis: None specified

166 [LAC 33:III.5109.A]

Connectors in gas/vapor service and in light liquid service  $\geq$  one inch in inside diameter size (percent of leaking connectors  $>$  2): VOC, Total monitored by the regulation's specified method(s) quarterly until good performance is obtained or until four quarterly monitorings have been performed, as specified in Subsections O.2 and O.5 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). If good performance has not been obtained after four quarters of monitoring, monitor the remaining unchecked connectors within three months of the last quarterly monitoring period, as specified in Subsection O.6 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). If monitoring of the remaining connectors indicates good performance, monitor in accordance with Subsection O.4. If monitoring of the remaining connectors indicates that good performance has not been obtained, monitor in accordance with Subsection O.5. Monitor using the method specified in Section P. If an instrument reading  $\geq$  1000 ppm is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection O.9, except as provided in Section M.

Which Months: All Year Statistical Basis: None specified

167 [LAC 33:III.5109.A]

Connectors in gas/vapor service and in light liquid service  $\geq$  one inch in inside diameter size (unsafe-to-monitor): Determine that the connector is unsafe to monitor because personnel would be exposed to an immediate danger as a result of complying with Subsections O.2 through O.6, as specified in Subsection O.10.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the requirements in Subsection O.1.

Connectors in gas/vapor service and in light liquid service  $\geq$  one inch in inside diameter size (unsafe-to-monitor): VOC, Total monitored by the regulation's specified method(s) at the regulation's specified frequency. Maintain a written plan that requires monitoring as frequently as practicable during safe to monitor periods, as specified in Subsection O.10.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method in Section P. Comply with this requirement instead of the requirements in Subsection O.1.

Which Months: All Year Statistical Basis: None specified

168 [LAC 33:III.5109.A]

Connectors in gas/vapor service and in light liquid service  $\geq$  one inch in inside diameter size (welded completely around the circumference of the interface of physically removed and the pipe welded together): Equipment/operational data monitored by the regulation's specified method(s) within three months after being welded. Check the integrity of the weld by monitoring according to the procedures in Section P or by testing using x-ray, acoustic monitoring, hydrotesting, or other applicable method, as specified in Subsection O.7 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the requirements in Subsection O.

Which Months: All Year Statistical Basis: None specified

169 [LAC 33:III.5109.A]

Connectors in gas/vapor service and in light liquid service  $\geq$  one inch in inside diameter size (welded completely around the circumference of the interface of physically removed and the pipe welded together): Equipment/operational data monitored by the regulation's specified method(s) within three months after being welded. Check the integrity of the weld by monitoring according to the procedures in Section P or by testing using x-ray, acoustic monitoring, hydrotesting, or other applicable method, as specified in Subsection O.7 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the requirements in Subsection O.

Which Months: All Year Statistical Basis: None specified

**SPECIFIC REQUIREMENTS**

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070046

Permit Number: 2623-V5

Air - Title V Regular Permit Major Mod

**FUG0025 FUGPROC-A - Area A Process Fugitives (EP-244)**

- 170 [LAC 33:III.5109.A] Connectors in gas/vapor service and in light liquid service  $\geq$  one inch in inside diameter size: Calculate the percent leaking connectors using the equation in Subsection O.12 for use in determining the monitoring frequency, as specified in Subsection O.12 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
- 171 [LAC 33:III.5109.A] Connectors in gas/vapor service and in light liquid service  $\geq$  one inch in inside diameter size: Repair Leaks as soon as practicable, but not later than 15 calendar days after a leak is detected. Make a first attempt at repair no later than 5 calendar days after each leak is detected. If a leak is detected, monitor the for leaks within the first 90 days after its repair, as specified in Subsection O.9 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
- 172 [LAC 33:III.5109.A] Connectors in gas/vapor service and in light liquid service  $\geq$  one inch in inside diameter size: VOC, Total monitored by the regulation's specified method(s) once initially, as specified in Subsections O.1 and O.2 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Section P. If an instrument reading  $\geq$  1000 ppm is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection O.9, except as provided in Section M.  
Which Months: All Year Statistical Basis: None specified  
Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in Subsections Q.1 through Q.13 as applicable, as specified in Section Q of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
- 173 [LAC 33:III.5109.A] Identify each piece of equipment in a process unit subject to this MACT determination such that it can be distinguished readily from equipment that is not subject to this MACT determination, as specified in Subsection C.3 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
- 174 [LAC 33:III.5109.A] Instrument systems and pressure relief devices in liquid service; pumps, valves, connectors, and agitators in heavy liquid service; connectors < 1 inch in inside diameter in gas/vapor or light liquid service: Repair leaks as soon as practicable, but not later than 15 calendar days after a leak is detected, except as provided in Section M, as specified in Subsection K.3 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Make a first attempt at repair no later than 5 calendar days after each leak is detected.
- 175 [LAC 33:III.5109.A] Instrument systems and pressure relief devices in liquid service; pumps, valves, connectors, and agitators in heavy liquid service; connectors < 1 inch in inside diameter in gas/vapor or light liquid service: VOC, Total monitored by the regulation's specified method(s) within 5 days of finding evidence of a potential leak by visual, audible, olfactory, or any other detection method, as specified in Subsection K.1 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Subsection P.2. If an instrument reading of 2000 ppm or greater for pumps or 1000 ppm or greater for valves, connectors, instrument systems, or pressure relief devices is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection K.3.  
Which Months: All Year Statistical Basis: None specified
- 176 [LAC 33:III.5109.A] Open-ended valves or lines (equipped with a second valve): Operate in a manner such that the valve on the process fluid end is closed before the second valve is closed, as specified in Subsection H.2 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
- 177 [LAC 33:III.5109.A] Open-ended valves or lines: Equip with a cap, blind flange, plug, or a second valve that seals the open end at all times except during operations requiring process fluid flow through the open-ended valve or line or during maintenance and repair, as specified in Subsection H.1 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
- 178 [LAC 33:III.5109.A] Open-ended valves or lines: Monitor and repair in accordance with Section I, as specified in Subsection H.4 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
- 179 [LAC 33:III.5109.A] Open-ended valves or lines: Monitor and repair in accordance with Section I, as specified in Subsection H.4 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).

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**AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery**

**Activity Number: PER20070046**

**Permit Number: 2623-V5**

**Air - Title V Regular Permit Major Mod**

**FUG0025 FUGPROC-A - Area A Process Fugitives (EP-244)**

- 180 [LAC 33:III.5109.A] Pressure relief device in gas/vapor service: After each pressure release, return to a condition of no leakage, as indicated by an instrument reading of less than 500 ppm, as soon as practicable, but no later than five calendar days after each pressure release, except as provided in Section M, as specified in Section F.2 a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
- 181 [LAC 33:III.5109.A] Pressure relief device in gas/vapor service: Equip with a closed-vent system capable of capturing and transporting leakage from the pressure relief device to a control device as described in Section N, as specified in Section F.2.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Alternative to Subsections F.1 and F.2.
- 182 [LAC 33:III.5109.A] Pressure relief device in gas/vapor service: VOC, Total < 500 ppm except during pressure releases, as measured by the method specified in Section P.3, as specified in Subsection F.1 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).  
Which Months: All Year Statistical Basis: None specified
- 183 [LAC 33:III.5109.A] Pressure relief device in gas/vapor service: VOC, Total monitored by the regulation's specified method(s) within 5 days (calendar) after the pressure release to confirm the condition of no leakage, as indicated by an instrument reading of less than 500 ppm above background, as specified in Section F.2 b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Subsection P.3.  
Which Months: All Year Statistical Basis: None specified
- 184 [LAC 33:III.5109.A] Pumps in light liquid service (dual mechanical seal system): Determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both, as specified in Subparagraph D.4.e.ii of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the requirements in Subsection D.1.
- 185 [LAC 33:III.5109.A] Pumps in light liquid service (dual mechanical seal system): Ensure that the barrier fluid is not in VOTAP service and, if the pump is covered by standards under NSPS, is not in VOC service, as specified in Paragraph D.4.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the requirements in Subsection D.1.
- 186 [LAC 33:III.5109.A] Pumps in light liquid service (dual mechanical seal system): Equip each barrier fluid system with a sensor that will detect failure of the seal system, the barrier fluid system, or both, as specified in Paragraph D.4.c of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the requirements in Subsection D.1.
- 187 [LAC 33:III.5109.A] Pumps in light liquid service (dual mechanical seal system): Equipment/operational data monitored by visual inspection/determination daily. Check sensor daily or equip with an audible alarm, as specified in Subparagraph D.4.e.i of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criterion determined in Paragraph D.4.e.ii, a leak is detected. If a leak is detected, initiate repair provisions specified in Paragraphs D.3.a and D.3.b. Comply with this requirement instead of the requirements in Subsection D.1.  
Which Months: All Year Statistical Basis: None specified
- 188 [LAC 33:III.5109.A] Pumps in light liquid service (dual mechanical seal system): Operate with the barrier fluid at a pressure that is at all times greater than the pump stuffing box pressure, or equip with a barrier fluid degassing reservoir that is connected by a closed-vent system to a control device that complies with the requirements of Section N, or equip with a system that purges the barrier fluid into a process stream with zero VOTAP emissions to the atmosphere, as specified in Paragraph D.4.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the requirements in Subsection D.1.

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AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

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**FUG0025 FUGPROC-A - Area A Process Fugitives (EP-244)**

- 189 [LAC 33:III.5109.A] Pumps in light liquid service (dual mechanical seal system): Presence of a leak monitored by visual inspection/determination weekly (calendar), as specified in Paragraph D.4.c of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). If there are indications of liquids dripping from the pump seal, a leak is detected. If a leak is detected, initiate repair provisions specified in Paragraphs D.3.a and D.3.b. Comply with this requirement instead of the requirements in Subsection D.1.
- 190 [LAC 33:III.5109.A] Which Months: All Year Statistical Basis: None specified  
Pumps in light liquid service (unmanned plant site): Presence of a leak monitored by visual inspection/determination at the regulation's specified frequency, as specified in Subparagraph D.6 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor pump as often as practicable and at least monthly. Comply with this requirement instead of the weekly visual inspection requirements in Paragraphs D.1.b and D.4.d, and the daily requirements in Paragraph D.4.e.i.
- 191 [LAC 33:III.5109.A] Which Months: All Year Statistical Basis: None specified  
Pumps in light liquid service: Equip with a closed-vent system capable of capturing and transporting any leakage from the seal or seals to a control device that complies with the requirements of Section N, as specified in Paragraph D.5 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Alternative to Subsections D.1 through D.4.
- 192 [LAC 33:III.5109.A] Pumps in light liquid service: Presence of a leak monitored by visual inspection/determination weekly (calendar), as specified in Paragraph D.1.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). If there are indications of liquids dripping from the pump seal, monitor within 5 days.
- 193 [LAC 33:III.5109.A] Which Months: All Year Statistical Basis: None specified  
Pumps in light liquid service: Repair leaks as soon as practicable, but not later than 15 calendar days after a leak is detected, except as provided in Section M, as specified in Subsection D.3 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Make a first attempt at repair no later than 5 calendar days after each leak is detected.
- 194 [LAC 33:III.5109.A] Pumps in light liquid service: VOC, Total monitored by the regulation's specified method(s) quarterly. Monitor to detect leaks by the methods specified in Subsection P.2, except as provided in Subsections C.4, D.4, D.5 and D.6, as specified in Paragraph D.1.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). If an instrument reading of 2000 ppm or greater is measured, a leak is detected. If a leak is detected, initiate repair provisions as specified in Subsection D.3.
- 195 [LAC 33:III.5109.A] Which Months: All Year Statistical Basis: None specified  
Repair equipment before the end of the next process unit shutdown, if repair is technically infeasible without a process unit shutdown, as specified in Subsection M.1 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
- 196 [LAC 33:III.5109.A] Sampling connection systems (closed-purge or closed-vent system): Return the purged process fluid directly to the process line with zero VOTAP emissions to the atmosphere, or collect and recycle the purged process fluid with zero VOTAP emissions to the atmosphere, or be designed and operated to capture and transport all the purged process fluid to a control device that complies with the requirements of Section N, as specified in Subsection G.2 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
- 197 [LAC 33:III.5109.A] Sampling connection systems: Equip with a closed-purge system or closed-vent system, except as provided for in Section C, as specified in Subsection G.1 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Ensure that this system collects or captures the sample purge for return to the process.
- 198 [LAC 33:III.5109.A] Submit report: Due quarterly starting three months after the initial report required in Subsection R.1. Include the information specified in Paragraphs R.2.a through R.2.e, as specified in Subsection R.2 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).

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AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

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**FUG0025 FUGPROC-A - Area A Process Fugitives (EP-244)**

- 199 [LAC 33:III.5109.A] Submit statement: Due in writing by 90 days after approval of the Compliance Plan/Certificate of Compliance. Submit the information specified in Subsections R.1 and R.3, as specified in Subsections R.1 and R.3 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).  
Surge control vessels and bottoms receivers: Equip each surge control vessel and bottoms receiver that is not routed back to the process with a closed-vent system that routes the organic vapors vented from the vessel back to the process or to a control device that complies with the requirements of Section N or to an alternate method of control which has been approved by DEQ, as specified in Section L of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
- 200 [LAC 33:III.5109.A] VOC, Total monitored by technically sound method at the regulation's specified frequency. Monitor equipment that has been physically removed from service, disassembled or dismantled in the next scheduled monitoring period or within 1 year of placing back in service, whichever occurs first, to determine if it is leaking, as specified in Subsection C.5 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).  
Which Months: All Year Statistical Basis: None specified
- 201 [LAC 33:III.5109.A] VOC, Total recordkeeping by manual logging at the regulation's specified frequency. Maintain a record of the monitoring in the log required in Subsection Q.5, as specified in Subsection C.5 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).  
Valves in gas/vapor service and in light liquid service (difficult-to-monitor): Demonstrate that the valve cannot be monitored without elevating the monitoring personnel more than two meters above a support service, as specified in Subsection I.6.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the requirements in Subsection I.1.
- 202 [LAC 33:III.5109.A] Valves in gas/vapor service and in light liquid service (difficult-to-monitor): VOC, Total monitored by the regulation's specified method(s) at the regulation's specified frequency. Maintain a written plan that requires monitoring of the valve at least once per calendar year, as specified in Subsection I.6.c of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Subsection P.2. Comply with this requirement instead of the requirements in Subsection I.1.  
Which Months: All Year Statistical Basis: None specified
- 203 [LAC 33:III.5109.A] Valves in gas/vapor service and in light liquid service (percent leaking valves  $\leq$  2 for two consecutive quarterly leak detection periods): VOC, Total monitored by the regulation's specified method(s) semiannually, as specified in Paragraph J.2.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Section I. If the percentage of valves leaking is greater than 2 for any monitoring period, comply with the requirements as described in Section I, as specified in Paragraph J.2.c of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Optional alternative to quarterly monitoring.  
Which Months: All Year Statistical Basis: None specified
- 204 [LAC 33:III.5109.A] Valves in gas/vapor service and in light liquid service (percent leaking valves  $\leq$  2 for two consecutive semiannual leak detection periods): VOC, Total monitored by the regulation's specified method(s) annually, as specified in Paragraph J.2.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Section P. If the percentage of valves leaking is greater than 2 for any monitoring period, comply with the requirements as described in Section I, as specified in Paragraph J.2.c of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Optional alternative to quarterly monitoring.  
Which Months: All Year Statistical Basis: None specified
- 205 [LAC 33:III.5109.A] Valves in gas/vapor service and in light liquid service (percent leaking valves  $\leq$  2 for two consecutive semiannual leak detection periods): VOC, Total monitored by the regulation's specified method(s) annually, as specified in Paragraph J.2.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Section P. If the percentage of valves leaking is greater than 2 for any monitoring period, comply with the requirements as described in Section I, as specified in Paragraph J.2.c of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Optional alternative to quarterly monitoring.  
Which Months: All Year Statistical Basis: None specified
- 206 [LAC 33:III.5109.A] Valves in gas/vapor service and in light liquid service (percent leaking valves  $\leq$  2 for two consecutive semiannual leak detection periods): VOC, Total monitored by the regulation's specified method(s) annually, as specified in Paragraph J.2.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Section P. If the percentage of valves leaking is greater than 2 for any monitoring period, comply with the requirements as described in Section I, as specified in Paragraph J.2.c of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Optional alternative to quarterly monitoring.  
Which Months: All Year Statistical Basis: None specified

**SPECIFIC REQUIREMENTS**

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070046

Permit Number: 2623-V5

Air - Title V Regular Permit Major Mod

**FUG0025 FUGPROC-A - Area A Process Fugitives (EP-244)**

207 [LAC 33:III.5109.A]

Valves in gas/vapor service and in light liquid service (percent leaking valves >= 4): VOC, Total monitored by the regulation's specified method(s) monthly, as specified in Subsection I.7 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Subsection P.2. Monthly monitoring must be initiated within 60 days of the previous monitoring and must continue until the percent of leaking valves is less than 4, at which time monitoring can be performed in accordance with Subsection I.1. Which Months: All Year Statistical Basis: None specified

208 [LAC 33:III.5109.A]

Valves in gas/vapor service and in light liquid service (skip period leak detection and repair): Notify DEQ 30 days before implementing any of the alternate provisions of Section J, as specified in Subsection R.4 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).

209 [LAC 33:III.5109.A]

Valves in gas/vapor service and in light liquid service (unsafe-to-monitor): Demonstrate that the valve is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with Subsection I.1, as specified in Subsection I.5.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the requirements in Subsection I.1.

210 [LAC 33:III.5109.A]

Valves in gas/vapor service and in light liquid service (unsafe-to-monitor): VOC, Total monitored by the regulation's specified method(s) at the regulation's specified frequency. Maintain a written plan that requires monitoring of the valve as frequently as practicable during safe-to-monitor times, as specified in Subsection I.5.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Subsection P.2. Comply with this requirement instead of the requirements in Subsection I.1.

Which Months: All Year Statistical Basis: None specified

211 [LAC 33:III.5109.A]

Valves in gas/vapor service and in light liquid service (using skip period leak detection and repair): Notify DEQ at least 30 days before implementing one of the alternate monitoring scenarios in Section J, as specified in Paragraph J.1.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).

212 [LAC 33:III.5109.A]

Valves in gas/vapor service and in light liquid service: Repair leaks as soon as practicable, but no later than 15 calendar days after a leak is detected, except as provided in Section M, as specified in Subsection I.3 and I.4 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Make a first attempt at repair no later than 5 calendar days after each leak is detected.

213 [LAC 33:III.5109.A]

Valves in gas/vapor service and in light liquid service: VOC, Total monitored by the regulation's specified method(s) quarterly, as specified in Subsection I.1 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Subsection P.2. If an instrument reading of 1000 ppm or greater is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection I.3.

Which Months: All Year Statistical Basis: None specified

**FUG0029 Y-8 - Cooling Tower Fugitives**

214 [LAC 33:III.509]

This cooling tower shall be analyzed at least once every month for volatile organic compounds (VOC). EPA Method 6200 of the Standard Method for the Examination of Water and Wastewater shall be used for the analysis. Records of the analysis shall be maintained on site and available for inspection. An annual report of all VOC detected in the cooling water samples and the amount detected shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding calendar year [PSD-LA-735]. [LAC 33:III.509, LAC 33:III.5109.A]

**GRP0038 Hot Resid Tank Cap**

**SPECIFIC REQUIREMENTS**

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070046

Permit Number: 2623-V5

Air - Title V Regular Permit Major Mod

**GRP0038 Hot Resid Tank Cap**

Group Members: EQT0540 EQT0541 EQT0542 EQT0544 RLP0077

215 [LAC 33:III.501.C.6]

Permittee shall demonstrate compliance with the Hot Resid Tank Cap emission limits (10.2 tons per year VOCs) by recording the chemicals stored and throughput in tanks T-2001, T-2002, T-2003, and T-2005. (Vapors from Tanks T-2001 and T-2002 are vented through the Hot Resid Tank Vent Scrubber for odor control.) All tanks under this emission cap shall be used to store hot resid products. The throughput and chemicals stored shall be recorded each month. The total throughput for the last twelve months shall also be recorded. These records shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. Total VOC emissions from the tanks under this emission cap over the maximum given in this permit for any twelve consecutive month period shall be considered a violation of this permit and must be reported to the Office of Environmental Compliance, Enforcement Division. A report showing chemicals stored, throughput, and the VOC emissions calculated based on the throughput for the preceding calendar year shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31.

**RLP0077 EP-218 - Hot Resid Tank Vent Scrubber No. 1**

216 [LAC 33:III.5109.A]

Comply with Louisiana MACT Determination for Refinery dated July 26, 1994.

**RLP0079 EP-65 - No. 2 Calciner Stack**

217 [40 CFR 60.104(a)(1)]

Fuel gas: Hydrogen sulfide  $\leq$  0.1 gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]

Which Months: All Year Statistical Basis: Three-hour rolling average

218 [40 CFR 60.105(a)(4)]

Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Monitor the H2S in fuel gases before being burned in any fuel gas combustion device. Subpart J. [40 CFR 60.105(a)(4)]

Which Months: All Year Statistical Basis: None specified

219 [40 CFR 60.106(a)]

Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106; except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]

220 [40 CFR 60.106]

Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J.

221 [40 CFR 64.]

Comply with the requirements of Compliance Assurance Monitoring using the monitoring approach in Appendix D.

222 [LAC 33:III.1101.B]

Opacity  $\leq$  20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: None specified

223 [LAC 33:III.1311.B]

Total suspended particulate  $\leq$  42.50 lb/hr. The rate of emission shall be the total of all emission points from the source.

Which Months: All Year Statistical Basis: None specified

224 [LAC 33:III.1313.C]

Total suspended particulate  $\leq$  0.6 lb/MMBTU of heat input.

Which Months: All Year Statistical Basis: None specified

225 [LAC 33:III.1503.C]

Comply with NSPS Subpart J.

**SPECIFIC REQUIREMENTS**

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070046

Permit Number: 2623-V5

Air - Title V Regular Permit Major Mod

**RLP0079 EP-65 - No. 2 Calciner Stack**

226 [LAC 33:III.501.C.6]

The coke production from the No. 2 Calciner is limited to 302,800 tons per year after the New Generation Ultra Low NOX Burners are installed on the Heater H-3804 (Area C). Permittee shall record coke throughput (through the No. 2 Calciner) each month. The total coke throughput for the last twelve months shall also be recorded. These records shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. Total coke throughput over the maximum given in this specific condition for any twelve consecutive month period shall be considered a violation of this permit and must be reported to the Office of Environmental Compliance, Enforcement Division. A report showing coke throughput for the preceding calendar year shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31.

227 [LAC 33:III.509]

Permittee shall sample the coke to be processed in the No. 2 Calciner on a weekly basis to determine sulfur content by weight. The sulfur content of the coke to be processed shall be recorded each week. The average sulfur content for the last twelve months shall also be recorded. These records shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. Average sulfur content above 2.5% by weight for any twelve consecutive month period shall be a violation of this permit and must be reported to the Office of Environmental Compliance, Enforcement Division. A report showing the average sulfur content for each twelve consecutive month period shall be submitted to the Office of Environmental Compliance, Enforcement Division semiannually. The semiannual reports shall be submitted by March 31 for the preceding period encompassing July through December and September 30 for the preceding period encompassing January through June. PSD-LA-533 (M-3).

228 [LAC 33:III.509]

Shall burn refinery fuel gas, hydrogen, or sweet natural gas only. The refinery fuel gas shall not exceed 0.1 grain of H2S per dry standard cubic foot. PSD-LA-584 (M-4).

229 [LAC 33:III.509]

The firing rate of No. 2 Calciner shall not exceed 1,585,200 MM BTU/year. The total heat input to No. 2 Calciner shall be recorded each month. The total heat input to No. 2 Calciner for the last twelve months shall also be recorded. These records shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. Heat input above the maximum given in this specific condition for any twelve consecutive month period shall be a violation of this permit and must be reported to the Office of Environmental Compliance, Enforcement Division. A report showing the heat input to No. 2 Calciner for the last six months, as well as the total for each twelve consecutive month period shall be submitted to the Office of Environmental Compliance, Enforcement Division semiannually. The semiannual reports shall be submitted by March 31 for the preceding period encompassing July through December and September 30 for the preceding period encompassing January through June. PSD-LA-533 (M-3).

**UNF0002 Lake Charles Refinery - Area A**

230 [40 CFR 60.]

All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A.

231 [40 CFR 61.145(b)(1)]

Provide DEQ with written notice of intention to demolish or renovate prior to performing activities to which 40 CFR 61 Subpart M applies.

Delivery of the notice by U.S. Postal Service, commercial delivery service, or hand delivery is acceptable. Subpart M. [40 CFR 61.145(b)(1)]

232 [40 CFR 61.148]

Do not install or reinstall on a facility component any insulating materials that contain commercial asbestos if the materials are either molded and friable or wet-applied and friable after drying. Subpart M.

233 [40 CFR 61.355]

Determine compliance with 40 CFR 61 Subpart FF using the test methods and procedures specified in 40 CFR 61.355(a) through (i), as applicable. Subpart FF.

**SPECIFIC REQUIREMENTS**

**AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery**  
**Activity Number: PER20070046**  
**Permit Number: 2623-V5**  
**Air - Title V Regular Permit Major Mod**

**UNF0002 Lake Charles Refinery - Area A**

- 234 [40 CFR 61.356] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records as specified in 40 CFR 61.356(a) through (n), as applicable. Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF.
- 235 [40 CFR 61.357(a)] Submit report: Due by initial startup. Submit a report that summarizes the regulatory status of each waste stream subject to 40 CFR 61.342 and is determined by the procedures specified in 40 CFR 61.355(c) to contain benzene. Include the information specified in 40 CFR 61.357(a)(1) through (a)(4). If there is no benzene onsite in wastes, products, by-products, or intermediates, submit an initial report that is a statement to this effect. Subpart FF. [40 CFR 61.357(a)]
- 236 [40 CFR 61.357(c)] Submit report: Due annually and whenever there is a change in the process generating the waste stream that could cause the total annual benzene quantity from facility waste to increase to 10 Mg/yr (11 ton/yr) or more. Submit updates to the information specified in 40 CFR 61.357(a)(1) through (a)(3) or, if the information in 40 CFR 61.357(a)(1) through (3) is not changed in the following year, a statement to that effect. Subpart FF. [40 CFR 61.357(c)]
- 237 [40 CFR 61.] All affected facilities shall comply with all applicable provisions in 40 CFR 61 Subpart A.
- 238 [40 CFR 63.2330-2406] Shall comply with all applicable provisions of 40 CFR 63 Subpart EEEEE.
- 239 [40 CFR 63.] All affected facilities shall comply with all applicable provisions in 40 CFR 63 Subpart A.
- 240 [40 CFR 68.15(a)] Develop a management system to oversee the implementation of the risk management program elements. [40 CFR 68.15(a)]
- 241 [40 CFR 68.15(b)] Assign a qualified person or position that has the overall responsibility for the development, implementation, and integration of the risk management program elements. [40 CFR 68.15(b)]
- 242 [40 CFR 68.15(c)] Define the lines of authority through an organization chart or similar document when responsibility for implementing individual requirements of 40 CFR 68 is assigned to persons other than the person identified under 68.15(b). [40 CFR 68.15(c)]
- 243 [40 CFR 68.15(c)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Document the names or positions of the people, other than the person identified under 68.15(b), who are assigned responsibility for implementing individual requirements of 40 CFR 68. [40 CFR 68.15(c)]
- 244 [40 CFR 68.155] Provide in the RMP an executive summary that includes a brief description of the elements listed in 68.155(a) through (g).
- 245 [40 CFR 68.160] Complete a single registration form and include in the RMP. Cover all regulated substances handled in covered processes. Include in the registration the information specified in 68.160(b)(1) through (13).
- 246 [40 CFR 68.165] Submit in the RMP information the release scenarios specified in 68.165(a)(2). Include the data listed in 68.165(b)(1) through (13).
- 247 [40 CFR 68.168] Submit in the RMP the information provided in 68.42(b) on each accident covered by 68.42(a).
- 248 [40 CFR 68.175] Provide in the RMP the information indicated in 68.175(b) through (p).
- 249 [40 CFR 68.180] Provide in the RMP the emergency response information listed in 68.180(a) through (c).
- 250 [40 CFR 68.185(b)] Submit in the RMP a single certification that, to the best of the signer's knowledge, information, and belief formed after reasonable inquiry, the information submitted is true, accurate, and complete. [40 CFR 68.185(b)]
- 251 [40 CFR 68.190(c)] Submit revised registration to EPA: Due within six months after a stationary source is no longer subject to 40 CFR 68. Indicate that the stationary source is no longer covered. [40 CFR 68.190(c)]
- 252 [40 CFR 68.200] Maintain records supporting the implementation of 40 CFR 68 for five years unless otherwise provided.
- 253 [40 CFR 68.22] Use the endpoints specified in 68.22(a) through (g) for analyses of offsite consequences.

**SPECIFIC REQUIREMENTS**

**AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery**

**Activity Number: PER20070046**

**Permit Number: 2623-V5**

**Air - Title V Regular Permit Major Mod**

**UNF0002 Lake Charles Refinery - Area A**

- 254 [40 CFR 68.25] Analyze the release scenarios in 68.25, as specified in 68.25(a) through (h).
- 255 [40 CFR 68.28] Identify and analyze at least one alternative release scenario for each regulated toxic substance held in a covered process(es) and at least one alternative release scenario to represent all flammable substances held in covered processes, as specified in 68.28(b) through (e).
- 256 [40 CFR 68.30] Estimate in the RMP the population within a circle with its center at the point of the release and a radius determined by the distance to the endpoint defined in 68.22(a).
- 257 [40 CFR 68.33] List in the RMP environmental receptors within a circle with its center at the point of the release and a radius determined by the distance to the endpoint defined in 68.22(a).
- 258. [40 CFR 68.36(b)] Submit revised RMP: Due within six months after changes in processes, quantities stored or handled, or any other aspect of the stationary source increase or decrease the distance to the endpoint by a factor of two or more. [40 CFR 68.36(b)]
- 259 [40 CFR 68.36] Review and update the offsite consequence analyses at least once every five years. Complete a revised analysis within six months if changes in processes, quantities stored or handled, or any other aspect of the stationary source might reasonably be expected to increase or decrease the distance to the endpoint by a factor of two or more.
- 260 [40 CFR 68.39] Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain the records specified in 68.39(a) through (e) on the offsite consequence analyses.
- 261 [40 CFR 68.42] Include in the five-year accident history all accidental releases from covered processes that resulted in deaths, injuries, or significant property damage on site, or known offsite deaths, injuries, evacuations, sheltering in place, property damage, or environmental damage. Include the information specified in 68.42(b)(1) through (10) for each accidental release.
- 262 [40 CFR 68.65(a)] Compile written process safety information, which includes information pertaining to the hazards of the regulated substances used or produced by the process, information pertaining to the technology of the process, and information pertaining to the equipment in the process, before conducting any process hazard analysis required by 40 CFR 68. [40 CFR 68.65(a)]
- 263 [40 CFR 68.65(d)(2)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Document that equipment complies with recognized and generally accepted good engineering practices. [40 CFR 68.65(d)(2)]
- 264 [40 CFR 68.67(a)] Determine the priority order for conducting process hazard analyses based on a rationale which includes such considerations as extent of the process hazards, number of potentially affected employees, age of the process, and operating history of the process. [40 CFR 68.67(a)]
- 265 [40 CFR 68.67(a)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Document the priority order for conducting process hazard analyses based on a rationale which includes such considerations as extent of the process hazards, number of potentially affected employees, age of the process, and operating history of the process. [40 CFR 68.67(a)]
- 266 [40 CFR 68.67(b)] Use one or more of the methodologies in Sec. 68.67(b)(1) through (b)(7) to determine and evaluate the hazards of the process being analyzed. [40 CFR 68.67(b)]
- 267 [40 CFR 68.67(d)] Use a team with expertise in engineering and process operations to perform the process hazard analysis. Include at least one employee who has experience and knowledge specific to the process being evaluated, and at least one employee who is knowledgeable in the specific process hazard analysis methodology being used. [40 CFR 68.67(d)]
- 268 [40 CFR 68.67(e)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Document the resolution of the recommendations of the team performing the process hazard analysis, and what actions are to be taken. [40 CFR 68.67(e)]

**SPECIFIC REQUIREMENTS**

**AJ ID: 2538 - ConocoPhillips Co - Lake Charles Refinery**

**Activity Number: PER20070046**

**Permit Number: 2623-V5**

**Air - Title V Regular Permit Major Mod**

**UNF0002 Lake Charles Refinery - Area A**

- 269 [40 CFR 68.67(c)] Establish a system to promptly address the team's findings and recommendations; assure that the recommendations are resolved in a timely manner and that the resolution is documented; document what actions are to be taken, complete actions as soon as possible; develop a written schedule of when these actions are to be completed; communicate the actions to operating, maintenance and other employees whose work assignments are in the process and who may be affected by the recommendations or actions. [40 CFR 68.67(c)]
- 270 [40 CFR 68.67(f)] Update and revalidate the process hazard analysis at least every five years after the completion of the initial process hazard analysis, to assure that the process hazard analysis is consistent with the current process. Use a team that meets the requirements in Sec. 68.67(d). [40 CFR 68.67(f)]
- 271 [40 CFR 68.67(g)] Retain process hazards analyses and updates or revalidations for each process covered by this section, as well as the documented resolution of recommendations described in Sec. 68.67(e), for the life of the process. [40 CFR 68.67(g)]
- 272 [40 CFR 68.69(a)] Develop and implement written operating procedures that provide clear instructions for safely conducting activities involved in each covered process consistent with the process safety information. Address steps for each operating phase, operating limits, safety and health considerations, and safety systems and their functions in the procedures. [40 CFR 68.69(a)]
- 273 [40 CFR 68.69(b)] Make operating procedures readily accessible to employees who work in or maintain a process. [40 CFR 68.69(b)]
- 274 [40 CFR 68.69(c)] Review operating procedures as often as necessary to assure that they reflect current operating practice, including changes that result from changes in process chemicals, technology, and equipment, and changes to stationary sources. Certify annually that these operating procedures are current and accurate. [40 CFR 68.69(c)]
- 275 [40 CFR 68.69(d)] Develop and implement safe work practices to provide for the control of hazards during specific operations. [40 CFR 68.69(d)]
- 276 [40 CFR 68.71(a)(1)] Train each employee presently involved in operating a process, and each employee before being involved in operating a newly assigned process, in an overview of the process and in the operating procedures as specified in Sec. 68.69. Emphasize the specific safety and health hazards, emergency operations including shutdown, and safe work practices applicable to the employee's job tasks. [40 CFR 68.71(a)(1)]
- 277 [40 CFR 68.71(b)] Provide refresher training at least every three years, and more often if necessary, to each employee involved in operating a process to assure that the employee understands and adheres to the current operating procedures of the process. [40 CFR 68.71(b)]
- 278 [40 CFR 68.71(c)] Ascertain that each employee involved in operating a process has received and understood the training required by Sec. 68.71. [40 CFR 68.71(c)]
- 279 [40 CFR 68.71(c)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Prepare a record which contains the identity of the employee, the date of training required by 40 CFR 68.71, and the means used to verify that the employee understood the training. [40 CFR 68.71(c)]
- 280 [40 CFR 68.73(b)] Establish and implement written procedures to maintain the ongoing integrity of process equipment listed in Sec. 68.73(a). [40 CFR 68.73(b)]
- 281 [40 CFR 68.73(c)] Train each employee involved in maintaining the ongoing integrity of process equipment in an overview of that process and its hazards and in the procedures applicable to the employee's job tasks to assure that the employee can perform the job tasks in a safe manner. [40 CFR 68.73(c)]
- 282 [40 CFR 68.73(d)(4)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Document each inspection and test that has been performed on process equipment. Maintain records of the information specified in Sec. 68.73(d)(4). [40 CFR 68.73(d)(4)]
- 283 [40 CFR 68.73(d)] Perform inspections and tests following recognized and generally accepted good engineering practices on process equipment listed in 40 CFR 68.73(a). Make the frequency of inspections and tests consistent with applicable manufacturer's recommendations and good engineering practices, and more frequently if determined to be necessary by prior operating experience. [40 CFR 68.73(d)]

**SPECIFIC REQUIREMENTS**

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070046

Permit Number: 2623-V5

Air - Title V Regular Permit Major Mod

**UNF0002 Lake Charles Refinery - Area A**

- 284 [40 CFR 68.73(e)] Correct deficiencies in equipment that are outside acceptable limits before further use or in a safe and timely manner when necessary means are taken to assure safe operation. [40 CFR 68.73(e)]
- 285 [40 CFR 68.73(f)] Assure that equipment as it is fabricated is suitable for the process application for which it will be used, in the construction of new plants and equipment. Perform appropriate checks and inspections to assure that equipment is installed properly and consistent with design specifications and the manufacturer's instructions. Assure that maintenance materials, spare parts and equipment are suitable for the process application for which they will be used. [40 CFR 68.73(f)]
- 286 [40 CFR 68.75(c)] Inform employees involved in operating a process, and maintenance and contract employees whose job tasks will be affected, of a change in the process and train them in the change, prior to start-up of the process or affected part of the process. [40 CFR 68.75(c)]
- 287 [40 CFR 68.75(d)] Update the process safety information required by Sec. 68.65 if a change covered by 68.75 results in a change in the process safety information. [40 CFR 68.75(d)]
- 288 [40 CFR 68.75(e)] Update the operating procedures or practices required by Sec. 68.69 if a change covered by 68.75 results in a change in the operating procedures or practices. [40 CFR 68.75(e)]
- 289 [40 CFR 68.75] Establish and implement written procedures to manage changes to process chemicals, technology, equipment, and procedures; and, changes to stationary sources that affect a covered process. Assure that the considerations specified in Sec. 68.75(b)(1) through (b)(5) are addressed prior to any change.
- 290 [40 CFR 68.77] Perform a pre-startup safety review for new stationary sources and for modified stationary sources when the modification is significant enough to require a change in the process safety information. Safety review must confirm the information specified in Sec. 68.77(b)(1) through (b)(4) prior to the introduction of regulated substances to a process.
- 291 [40 CFR 68.79(c)] Develop a report of the findings of the compliance audit required by 40 CFR 68.79(a). [40 CFR 68.79(c)]
- 292 [40 CFR 68.79(d)] Determine an appropriate response to each of the findings of the compliance audit. [40 CFR 68.79(d)]
- 293 [40 CFR 68.79(d)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Document the appropriate response to each of the findings of the compliance audit, and document that deficiencies have been corrected. [40 CFR 68.79(e)]
- 294 [40 CFR 68.79(e)] Retain the two (2) most recent compliance audit reports. [40 CFR 68.79(e)]
- 295 [40 CFR 68.79] Conduct compliance audit: Due at least every three years. Certify compliance with the provisions of the prevention program to verify that procedures and practices developed under 40 CFR 68 are adequate and are being followed. Conduct compliance audit by at least one person knowledgeable in the process.
- 296 [40 CFR 68.81(c)] Establish an incident investigation team consisting of at least one person knowledgeable in the process involved, including a contract employee if the incident involved work of the contractor, and other persons with appropriate knowledge and experience to thoroughly investigate and analyze the incident. [40 CFR 68.81(c)]
- 297 [40 CFR 68.81(e)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Document resolutions and corrective actions of the incident report findings and recommendations. [40 CFR 68.81(e)]
- 298 [40 CFR 68.81(e)] Establish a system to promptly address and resolve the incident report findings and recommendations. [40 CFR 68.81(e)]
- 299 [40 CFR 68.81] Conduct incident investigation: Due as promptly as possible, but not later than 48 hours following each incident which resulted in, or could reasonably have resulted in a catastrophic release of a regulated substance.

**SPECIFIC REQUIREMENTS**

**AIID: 2538 - ConocoPhillips Co - Lake Charles Refinery**

**Activity Number: PER20070046**

**Permit Number: 2623-V5**

**Air - Title V Regular Permit Major Mod**

**UNF0002 Lake Charles Refinery - Area A**

- 300 [40 CFR 68.81] Prepare a report at the conclusion of the incident investigation which includes, at a minimum, the information specified in 40 CFR 68.81(d)(1) through (5). Review the report with all affected personnel whose job tasks are relevant to the incident findings including contract employees where applicable. Retain the incident investigation reports for five years.
- 301 [40 CFR 68.83(a)] Develop a written plan of action regarding the implementation of the employee participation required by 40 CFR 68. [40 CFR 68.83(a)]
- 302 [40 CFR 68.83(b)] Consult with employees and their representatives on the conduct and development of process hazards analyses and on the development of the other elements of process safety management. [40 CFR 68.83(b)]
- 303 [40 CFR 68.83(c)] Provide to employees and their representatives access to process hazard analyses and to all other information required to be developed under 40 CFR 68. [40 CFR 68.83(c)]
- 304 [40 CFR 68.85] Issue a hot work permit for hot work operations conducted on or near a covered process. Document in the permit that the fire prevention and protection requirements in 29 CFR 1910.252(a) have been implemented prior to beginning the hot work operations; indicate the date(s) authorized for hot work; and identify the object on which hot work is to be performed. Keep permit on file until completion of the hot work operations.
- 305 [40 CFR 68.87(b)(1)] Obtain and evaluate information regarding the contract owner or operator's safety performance and programs, when selecting a contractor. [40 CFR 68.87(b)(1)]
- 306 [40 CFR 68.87(b)(2)] Inform contract owner or operator of the known potential fire, explosion, or toxic release hazards related to the contractor's work and the process. [40 CFR 68.87(b)(2)]
- 307 [40 CFR 68.87(b)(3)] Explain to the contract owner or operator the applicable provisions of 40 CFR 68 Subpart E. [40 CFR 68.87(b)(3)]
- 308 [40 CFR 68.87(b)(4)] Develop and implement safe work practices consistent with Sec. 68.69(d), to control the entrance, presence, and exit of the contract owner or operator and contract employees in covered process areas. [40 CFR 68.87(b)(4)]
- 309 [40 CFR 68.87(b)(5)] Periodically evaluate the performance of the contract owner or operator in fulfilling their obligations as specified in 40 CFR 68.87(c). [40 CFR 68.87(b)(5)]
- 310 [40 CFR 68.95(a)] Develop and implement an emergency response program for the purpose of protecting public health and the environment. Include in the program the elements listed in 40 CFR 68.95(a)(1) through (4). [40 CFR 68.95(a)]
- 311 [40 CFR 68.95(c)] Coordinate the emergency response plan developed under 68.95(a)(1) with the community emergency response plan developed under 42 U.S.C. 11003. Upon request of the local emergency planning committee or emergency response officials, promptly provide information necessary for developing and implementing the community emergency response plan. [40 CFR 68.95(c)]
- 312 [40 CFR 70.5(a)(1)(iii)] Submit Title V permit application for renewal. Due 6 months before permit expiration date. [40 CFR 70.5(a)(1)(iii)]
- 313 [40 CFR 70.6(a)(3)(iii)(A)] Submit Title V monitoring results report: Due semiannually, by March 31st and September 30th for the preceding periods encompassing July through December and January through June, respectively. Submit reports to the Office of Environmental Compliance, Surveillance Division. Certify reports by a responsible company official. Clearly identify all instances of deviations from permitted monitoring requirements. For previously reported deviations, in lieu of attaching the individual deviation reports, clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. [40 CFR 70.6(a)(3)(iii)(A)]

**SPECIFIC REQUIREMENTS**

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery  
 Activity Number: PER20070046  
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 Air - Title V Regular Permit Major Mod

**UNF0002 Lake Charles Refinery - Area A**

- 314 [40 CFR 70.6(a)(3)(iii)(B)] Submit Title V excess emissions report: Due quarterly, by June 30, September 30, December 31, March 31. Submit reports of all permit deviations to the Office of Environmental Compliance, Surveillance Division. Certify all reports by a responsible official in accordance with 40 CFR 70.5(d). The reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by 40 CFR 70.6(a)(3)(iii)(A) as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. Unless required by an applicable reporting requirement, a written report is not required during periods in which there is no deviation. [40 CFR 70.6(a)(3)(iii)(B)]
- 315 [40 CFR 70.6(c)(5)(iv)] Submit Title V compliance certification: Due annually, by the 31st of March. Submit to the Office of Environmental Compliance, Surveillance Division. [40 CFR 70.6(c)(5)(iv)]
- 316 [40 CFR 82.Subpart F] Comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B.
- 317 [LAC 33:III.1103] Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited.
- 318 [LAC 33:III.1109.B] Outdoor burning of waste material or other combustible material is prohibited.
- 319 [LAC 33:III.1303.B] Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited.
- 320 [LAC 33:III.2113.A] Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5.
- 321 [LAC 33:III.2141.A] Control emissions of volatile organic compounds from petroleum refinery process unit turnarounds by pumping the liquid contents to storage and depressurizing the processing units to five psig (pounds per square inch gauge) or below before venting to the atmosphere. Control the vapors during the depressurization prior to venting to atmosphere by one of the applicable methods specified in LAC 33:III.2115.A, B, and F.
- 322 [LAC 33:III.2141.A] Keep records and determine compliance as specified in LAC 33:III.2115.I, J, and K.
- 323 [LAC 33:III.219] Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance.
- 324 [LAC 33:III.2901.D] Discharges of odorous substances at or beyond property lines which cause a perceived odor intensity of six or greater on the specified eight point butanol scale as determined by Method 41 of LAC 33:III.2901.G are prohibited.
- 325 [LAC 33:III.2901.F] If requested to monitor for odor intensity, take and transport samples in a manner which minimizes alteration of the samples either by contamination or loss of material. Evaluate all samples as soon after collection as possible in accordance with the procedures set forth in LAC 33:III.2901.G.
- 326 [LAC 33:III.509] Comply with the requirements of PSD-LA-533 (M-3), PSD-LA-584 (M-4), and PSD-LA-735. This permit includes provisions of the Prevention of Significant Deterioration (PSD) review from Permits PSD-LA-533 (M-3), PSD-LA-584 (M-4), and PSD-LA-735.

**SPECIFIC REQUIREMENTS**

**AIID: 2538 - ConocoPhillips Co - Lake Charles Refinery**

**Activity Number: PER20070046**

**Permit Number: 2623-V5**

**Air - Title V Regular Permit Major Mod**

**UNF0002 Lake Charles Refinery - Area A**

- 327 [LAC 33:III.5109] For a period of 5 years following resumption of regular operations after the ULSD Project, permittee shall record throughput for the units listed below. The throughput shall be recorded each month. The total throughput for the last twelve months shall also be recorded. These records shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. If the throughput in any twelve-month period for any unit is over the corresponding projected annual throughput, it must be reported to the Office of Environmental Compliance, Enforcement Division; and an analysis shall be provided to determine if further PSD review on the ULSD Project is required.
  - No. 1 Coker (4,358 MM bbl/yr)
  - No. 2 Coker (15,460 MM bbl/yr)
  - No. 2 HDS (4,248 MM bbl/yr)
  - No. 7 HDS (15,369 MM bbl/yr)
  - No. 8 HDS (2,992 MM bbl/yr)
- 328 [LAC 33:III.5105.A.1] PSD-LA-735. Do not construct or modify any stationary source subject to any standard set forth in LAC 33:III.Chapter 51.Subchapter A without first obtaining written authorization from DEQ in accordance with LAC 33:III.Chapter 51.Subchapter A, after the effective date of the standard.
- 329 [LAC 33:III.5105.A.2] Do not cause a violation of any ambient air standard listed in LAC 33:III. Table 51.2, unless operating in accordance with LAC 33:III.5109.B.
- 330 [LAC 33:III.5105.A.3] Do not build, erect, install, or use any article, machine, equipment, process, or method, the use of which conceals an emission that would otherwise constitute a violation of an applicable standard.
- 331 [LAC 33:III.5105.A.4] Do not fail to keep records, notify, report or revise reports as required under LAC 33:III.Chapter 51. Subchapter A.
- 332 [LAC 33:III.5107.A.2] Include a certification statement with the annual emission report and revisions to any emission report that attests that the information contained in the emission report is true, accurate, and complete, and that is signed by a responsible official, as defined in LAC 33:III.502. Include the full name of the responsible official, title, signature, date of signature and phone number of the responsible official.
- 333 [LAC 33:III.5107.A] Submit Annual Emissions Report (TEDJ): Due annually, by the 31st of March unless otherwise directed by DEQ, to the Office of Environmental Assessment in a format specified by DEQ. Identify the quantity of emissions in the previous calendar year for any toxic air pollutant listed in Table 51.1 or Table 51.3.
- 334 [LAC 33:III.5107.B.1] Submit notification: Due to the Department of Public Safety 24-hour Louisiana Emergency Hazardous Materials Hotline at (225) 925-6595 immediately, but in no case later than 1 hour, after any discharge of a toxic air pollutant into the atmosphere that results or threatens to result in an emergency condition (a condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water or air environment, or cause severe damage to property).
- 335 [LAC 33:III.5107.B.2] Submit notification: Due to SPOC, except as provided in LAC 33:III.5107.B.6, no later than 24 hours after the beginning of any unauthorized discharge into the atmosphere of a toxic air pollutant as a result of bypassing an emission control device, when the emission control bypass was not the result of an upset, and the quantity of the unauthorized bypass is greater than or equal to the lower of the Minimum Emission Rate (MER) in LAC 33:III.5112, Table 51.1, or a reportable quantity (RQ) in LAC 33:1.3931, or the quantity of the unauthorized bypass is greater than one pound and there is no MER or RQ for the substance in question. Submit notification in the manner provided in LAC 33:1.3923.
- 336 [LAC 33:III.5107.B.3] Submit notification: Due to SPOC, except as provided in LAC 33:III.5107.B.6, immediately, but in no case later than 24 hours after any unauthorized discharge of a toxic air pollutant into the atmosphere that does not cause an emergency condition, the rate or quantity of which is in excess of that allowed by permit, compliance schedule, or variance, or for upset events that exceed the reportable quantity in LAC 33:1.3931. Submit notification in the manner provided in LAC 33:1.3923.

**SPECIFIC REQUIREMENTS**

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070046

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Air - Title V Regular Permit Major Mod

**UNF0002 Lake Charles Refinery - Area A**

- 337 [LAC 33:III.5107.B.4] Submit written report: Due by certified mail to SPOC within seven calendar days of learning of any such discharge or equipment bypass as referred to in LAC 33:III.5107.B.1 through B.3. Include the information specified in LAC 33:III.5107.B.4.a.i through B.4.a.viii.
- 338 [LAC 33:III.5107.B.5] Report all discharges to the atmosphere of a toxic air pollutant from a safety relief device, a line or vessel rupture, a sudden equipment failure, or a bypass of an emission control device, regardless of quantity, IF THEY CAN BE MEASURED AND CAN BE RELIABLY QUANTIFIED USING GOOD ENGINEERING PRACTICES, to DEQ along with the annual emissions report and where otherwise specified. Include the identity of the source, the date and time of the discharge, and the approximate total loss during the discharge.
- 339 [LAC 33:III.5109.C] Develop a standard operating procedure (SOP) within 120 days after achieving or demonstrating compliance with the standards specified in LAC 33:III. Chapter 51. Detail in the SOP all operating procedures or parameters established to ensure that compliance with the applicable standards is maintained and address operating procedures for any monitoring system in place, specifying procedures to ensure compliance with LAC 33:III.5113.C.5. Make a written copy of the SOP available on site or at an alternate approved location for inspection by DEQ. Provide a copy of the SOP within 30 days upon request by DEQ.
- 340 [LAC 33:III.5113.A.1] Submit notification in writing: Due to SPOC not more than 60 days nor less than 30 days prior to initial start-up. Submit the anticipated date of the initial start-up.
- 341 [LAC 33:III.5113.A.2] Submit notification in writing: Due to SPOC within 10 working days after the actual date of initial start-up of the source. Submit the actual date of initial start-up of the source.
- 342 [LAC 33:III.5151.F.1.J] An individual or company contracted to perform a demolition or renovation activity which disturbs RACM must be recognized by the Licensing Board for Contractors to perform asbestos abatement, and shall meet the requirements of LAC 33:III.5151.F.2 and F.3 for each demolition or renovation activity.
- 343 [LAC 33:III.5609.A.2.b] Activate the preplanned strategy listed in LAC 33:III.5611. Table 6 when the administrative authority declares an Air Pollution Warning.
- 344 [LAC 33:III.5609.A.3.b] Activate the preplanned abatement strategy listed in LAC 33:III.5611. Table 7 when the administrative authority declares an Air Pollution Emergency.
- 345 [LAC 33:III.5609.A] Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency.
- 346 [LAC 33:III.5901.A] Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:III.5611. Tables 5, 6, and 7.
- 347 [LAC 33:III.5907] Comply with the provisions in 40 CFR 68, except as specified in LAC 33:III.5901.  
Identify hazards that may result from accidental releases of the substances listed in 40 CFR 68.130, Table 59.0 of LAC 33:III.5907, or Table 59.1 of LAC 33:III.5913 using appropriate hazard assessment techniques, design and maintain a safe facility, and minimize the off-site consequences of accidental releases of such substances that do occur.
- 348 [LAC 33:III.5911.C] Submit amended registration: Due to the Department of Environmental Quality, Office of Environmental Compliance, Emergency and Radiological Services Division, within 60 days after the information in the submitted registration is no longer accurate.
- 349 [LAC 33:III.919.D] Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment, Air Quality Assessment Division. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D.

## APPENDIX A

### USE OF FLUE GAS OXYGEN MONITORS AS BACT FOR COMBUSTION CONTROLS

Within the time limits specified in Louisiana Air Emission Permit General Condition VIII, the permittee shall determine the emissions of nitrogen oxides (NO<sub>x</sub>) and carbon monoxide (CO) from the permitted combustion device in accordance with test methods and procedures set out in 40 CFR 60, Appendix A, Methods 7E\* and 10 respectively. These emission determinations shall be made at:

- 1) Maximum design capacity; and
- 2) Normal operating load.

The permittee shall install a continuous oxygen monitor in the flue gas of the permitted combustion device which meets the requirements of 40 CFR 60, Appendix B, Performance Specification 3. A range of excess air shall be established. The range shall be the oxygen content associated with NO<sub>x</sub> and CO emission rates in the PSD permit, or, where a PSD limit does not exist, the appropriate limit in this permit. The range shall be determined such that the appropriate NO<sub>x</sub> and CO limits are not exceeded.

The flue gas oxygen content shall be maintained within this range and alarms shall be set to sound when flue gas oxygen levels are outside of this range.

Should any combustion equipment modifications be made such as different type burners, combustion air relocation, fuel conversion, tube removal or addition, etc., emissions corrections as described above shall be conducted with 60 days of attaining full operation after such modification. Results of all emission determinations shall be sent to the permitting authority within 45 days after completion of the tests.

- \* A properly installed and calibrated continuous NO<sub>x</sub> monitor may be substituted for Method 7E.

## APPENDIX B

### USE OF FLUE GAS OXYGEN MONITORS FOR COMBUSTION CONTROLS

Within the time limits specified in Louisiana Air Emission Permit General Condition VIII, the permittee shall determine the emissions of nitrogen oxides ( $\text{NO}_x$ ) and carbon monoxide (CO) from the permitted combustion device in accordance with test methods and procedures set out in 40 CFR 60, Appendix A, Methods 7E\* and 10 respectively. These emission determinations shall be made at:

- 1) Maximum design capacity; and
- 2) Normal operating load.

The permittee shall install a continuous oxygen monitor in the flue gas of the permitted combustion device which meets the requirements of 40 CFR 60, Appendix B, Performance Specification 3. A range of excess air shall be established. The range shall be the oxygen content associated with  $\text{NO}_x$  and CO emission rates in the PSD permit, or, where a PSD limit does not exist, the appropriate limit in this permit. The range shall be determined such that the appropriate  $\text{NO}_x$  and CO limits are not exceeded.

Combustion temperature and oxygen content shall be continuously recorded. Alarms shall be set to sound when the flue gas oxygen content or combustion temperature are outside of this established range and corrective action shall be taken any time an alarm is sounded. These records and records of alarm and corrective actions shall be maintained on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.

Should any combustion equipment modifications be made such as different type burners, combustion air relocation, fuel conversion, tube removal or addition, etc., emissions corrections as described above shall be conducted with 60 days of attaining full operation after such modification. Results of all emission determinations shall be sent to the permitting authority within 45 days after completion of the tests.

\* A properly installed and calibrated continuous  $\text{NO}_x$  monitor may be substituted for Method 7E.

## APPENDIX C

### STREAMLINED EQUIPMENT LEAK MONITORING PROGRAM

Permittee shall comply with a streamlined equipment leak monitoring program. Compliance with the streamlined program in accordance with this specific condition shall serve to comply with each of the fugitive emission monitoring programs being streamlined, as indicated in the following table. Non-compliance with the streamlined program in accordance with this specific condition may subject the permittee to enforcement action for one or more of the applicable fugitive emissions programs.

- i) Permittee shall apply the streamlined program to the combined universe of components subject to any of the programs being streamlined. Any component type which does not require periodic monitoring under the overall most stringent program (LAC 33:III.Chapter 51) shall be monitored as required by the most stringent requirements of any other program being streamlined and will not be exempted. The streamline program will include any exemptions based on size of component available in any of the programs being streamlined.
- ii) Permittee shall use leak definitions and monitoring frequency based on the overall most stringent program. Percent leaker performance shall be calculated using the provisions of the overall most stringent program. Annual monitoring shall be defined as once every four quarters. Some allowance may be made in the first year of the streamlined program in order to allow for transition from existing monitoring schedules.
- iii) Permittee shall comply with recordkeeping and reporting requirements of the overall most stringent program. Semiannual reports shall be submitted on January 31 and July 31, to cover the periods July 1 through December 31 and January 1 through June 30, respectively. The semiannual reports shall include any monitoring performed within the reporting periods.
- iv) The facility shall comply with the requirements of the Louisiana MACT Determination (LDREL) for Refinery Equipment Leaks dated July 26, 1994, except as noted below:
  - A. A connector is in VOTAP service if a piece of equipment that either contains or contacts a volatile fluid (liquid or gas) that is at least 5% of the sum of all Class I and II organic toxic air pollutants.
  - B. Connectors that are determined to be leaking by visual, audible, olfactory, or any other detection method shall be monitored, repaired, recorded, and reported according to the provisions in the Louisiana Refinery Equipment Leaks Determination and any applicable equipment leak programs.
  - C. Permittee shall submit to the Office of Environmental Assessment, Environmental Technology Division reports containing information concerning valves. ConocoPhillips Company shall include on these reports the number of connectors associated with the valves that were monitored and the number of connectors found leaking, but shall not report a percent connectors leaking.
- v) Per BACT requirements of PSD Permit PSD-LA-735, the following leak definitions shall be used in the program:

Component	Leak Definition (ppmv)
Valves – Light liquid service	500
Valves – Heavy liquid service	No visual leaks
Valves – Gas/vapor service	500
Pumps – Light liquid service	2,000
Pumps – Heavy liquid service	No visual leaks
Pressure Relief Valves – Gas/vapor service	500
Pressure Relief Valves – Liquid service	500
Connectors – Light liquid service	500
VOC Compressors	5,000
Closed Vent Systems	500

Unit or Plant Site	Program Being Streamlined	Stream Applicability	Overall Most Stringent Program
Lake Charles Refinery	LAC 33:III.5109 – Louisiana MACT Determination for Refineries	≥ 5% VOTAP	Louisiana MACT Determination for Refineries*
	40 CFR 61 Subpart V	≥ 5% VOHAP	
	40 CFR 60 Subpart GGG	≥ 10% VOC	
	LAC 33:III.2122 – Louisiana Fugitive Emission Control for Specified Parishes	≥ 10% VOC	

\* Comply with Louisiana MACT Determination for Refineries with exceptions as listed in paragraph iv.

## APPENDIX D

### COMPLIANCE ASSURANCE MONITORING APPROACH FOR NO. 2 CALCINER

	For PM <sub>10</sub> Emissions	For VOC Emissions
Control Device	Incinerator	Incinerator
Applicable limit	119.45 tons/year	1.45 tons/year
Measurement approach	Continuous Opacity Monitoring System (COMS)	Incinerator firebox temperature (Thermocouple)
Justification for parameters selected	Confirm proper combustion/operation	Confirm proper combustion/operation
Indicator range	Excursion: Opacity > 20%, except for one 6-minute period in any 60 consecutive minute	Excursion: < 1,600° F
Quality Assurance/ Quality Control practices	Calibration and maintenance of monitoring devices per manufacturer's specification	Maintenance of the monitor device per manufacturer's specification
Monitoring data average period	None (Continuous)	None
Data collection procedures	Data collected and logged by control system	Data collected and logged by control system
Potential control device bypass monitoring	None	None